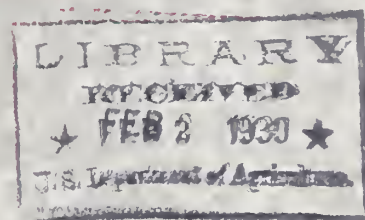


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- 62.37



#3. M. S. DELICIOUS GOLD LINED  
ROCKY FORD CANTALOUPE

1930  
*Meyer Seed Company's*  
*Garden Book*  
20<sup>th</sup> Edition

34-36 LIGHT ST.  
BALTIMORE - MARYLAND  
PLAZA - 6170 - 6171

Vegetable Seed Trials U. N. Shoemaker JAN 29 1930





*The  
Meyer  
Seed Company's  
1930*

*Garden Book*

*20th Edition*



**SPECIAL OFFER: M-S Vegetable Garden Collection - - - 50c Postpaid**

No. 1— $\frac{1}{2}$  pt. M.-S. Sunshine Sugar Corn.

No. 2— $\frac{1}{2}$  pt. M.-S. Giant Stringless Green Pod Beans.

No. 3—1 pkt. M.-S. Delicious Gold Lined Rocky Ford Cantaloupe (see front cover) or customer's selection of any other pkt. of M.-S. Vegetable Seed.

No. 4—1 oz. M.-S. Southern Pride Carrot.

No. 5—1 oz. M.-S. Early Marvelous Beet.

All of the above seeds are of the finest quality and the matured vegetables will please the most fastidious palate.



Kindly write name and address plainly, print preferred.)

Cents

[illegible]

It is always best to write letters and inquiries on a separate memorandum. NOT on order sheets.

[illegible]

**NOTE: See Our Special Vegetable Seed Collection Illustrated on the Inside Back Cover Page.**

# 1910-Twentieth Annual Edition-1930

## The Meyer Seed Co.'s Garden Book

### To Our Customers

IN entering this our 20th year, we are thanking all of you for contributing so largely to the growth of our business. We trust you will find our Garden Book of interest and of real help and profit in your Gardening, Farming and Poultry Raising. We are always trying to secure new and proven varieties of Flowers and Vegetables as well as being on the alert for articles of Merit, to be added to our extensive line of Poultry Equipment and Horticultural Tools. It is our aim to supply only the best in Seeds, Bulbs, Plants, Horticultural Tools and Poultry Supplies. Our growing contracts, for Seeds and Bulbs, are made with the most careful growers in localities where the different varieties succeed the best.

Although we take all possible care to supply only such Seeds as will under proper conditions and care produce good results, WE GIVE NO WARRANTY, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, OR ANY OTHER MATTER OF ANY SEEDS, BULBS, OR PLANTS WE SEND OUT AND WILL NOT BE RESPONSIBLE FOR THE CROP. It must however be plain to every one who gives the matter the slightest thought that it is our best interest to send out only such stock as will not only grow, but prove true to name and description. All Seeds that we especially recommend are designated M.-S. (Meyer-Special).

We assure you that your orders and good will are highly appreciated, and it shall be our constant purpose to merit your continued confidence, by living up to our motto: "Sterling Quality, Courteous Treatment, and Punctuality."

To new customers we extend a cordial welcome with the assurance that it will be our endeavor to handle your orders to your entire satisfaction and an opportunity to serve you will be appreciated.

With every good wish for your Happiness and Prosperity throughout the New Year, we are

Very truly yours;

THE MEYER SEED COMPANY.

(Baltimore, Md., Jan. 1st, 1930).

#### PARCEL POST RATES

We deliver by PARCEL POST FREE to any Postoffice in the United States all cash orders for Flower and Vegetable Seeds in packets, ounces and  $\frac{1}{4}$  pounds, unless otherwise noted. No seed delivered free unless order is accompanied with the cash. For postage on Peas, Beans, Corn, Vegetable and Field Seeds in larger quantities and All Merchandise, consult following table. All merchandise other than seeds, bulbs and plants up to and including 4 oz. in weight can be sent at the rate of 1c an ounce regardless of distance. Over 4 ozs. at the Zone Rate.



NOTE.—When estimating postage on goods not included in our free delivery, bear in mind that while the packing on one pound may only weigh the fraction of a pound, it must be considered as a full pound when adding postage. On larger quantities add postage in proportion.

Limit of weight for delivery within local, first, second and third zones is 70 pounds; to all other zones, 50 pounds.

When larger quantities are wanted we can pack in two or more

parcels if necessary, provided money is remitted to cover postage.

	Each	Add'l lb.
1 and 2 zone—150 miles.....	7c	1c
3 zone—150 to 300 miles.....	8c	2c
For each additional zone add 1c. For each additional lb. add 2c.		

#### POISONS AND LIQUIDS CANNOT BE SENT PARCEL POST

How To Send Money—Remittances may be sent either in the form of a Money Order, Bank Check or Draft, or if currency is sent it should be registered. Postage stamps are satisfactory for small amounts.

Orders From Unknown Correspondents—We often receive orders from unknown correspondents without remittances, who request that we forward the goods and payment will be sent later. Please do not ask us to do this unless established credit has been previously arranged with us, as satisfactory business references must always be given by customers wishing to open accounts for credit.

IMPORTANT.—Merchandise to be credited must be returned within five days in good order free of expense to us.

## M.-S. Lawn Grass Seed Mixtures

### Backed By A 19-Year Reputation

**M.-S. ROLAND PARK LAWN GRASS** is made from our own formula, and composed of grasses which are adapted for the purposes of producing lawns which retains its rich green color and velvet appearance throughout the entire summer and fall. The quantity required for making a new lawn is 75 to 100 pounds per acre, or for renovating old lawns, 40 to 50 pounds per acre. For a plot 10x25 or 250 square feet, one pound is required for a new lawn, or about one-half pound for renovating. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

By parcel post add as to Zones.

**M.-S. SHADY NOOK GRASS**—The grasses used in making this special mixture are only those that are well adapted for growing in shade. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. PLEASURE GROUND MIXTURE**—This special mixture is made from our own formula, and will produce a permanent turf that will stand the hardest wear. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. TERRACE MIXTURE**—There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deep-rooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. 1 lb. 40c; 3 lbs. \$1.15; 5 lbs. \$1.75; 10 lbs. \$3.50; bushel of 30 lbs. \$10.00.

**M.-S. SEASHORE LAWN GRASS**—Is all that its name implies. 1 lb. 50c; 3 lbs. \$1.25; 5 lbs. \$2.25; 10 lbs. \$4.25; bushel of 30 lbs. \$12.00.

**R. S. MEADOW GRASS (Poa Trivialis)**—For shady situations in parks and densely shaded lawns, this grass has no superior. It produces a firm and attractive turf where few other grasses can exist. A fine grass for dry ground under bay windows, overlapping roofs and shady side yards. 1 lb. 75c; 5 lbs. \$3.25; 10 lbs. \$6.00.

**SOUTH GERMAN BENT GRASS**—Especially adapted for putting greens and wherever a velvet-like lawn is wanted. 1 lb. \$1.00.

**WHITE CLOVER**— $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 30c; 1 lb. 50c. Special price in large quantities on quotations on all listed grasses. By parcel post add as to zones.

**M.-S. PUTTING GREEN MIXTURE**—There is a steady demand for a reliable mixture of grass seeds from those who have found Bent Greens more liable to fungus attack than Greens composed of mixed grasses, and it is to meet this demand that our mixture is prepared.

Our Putting Green Mixture contains a liberal quantity of German Bent in combination with the finest grades of Kentucky Blue Grass and Fancy Red Top, and will give fine satisfaction on green or lawn. Sow 8 to 10 lbs. to 1,000 sq. ft.  $\frac{1}{2}$  lb. 40c; 1 lb. 75c; 5 lbs. \$3.50; 10 lbs. \$6.75; 20 lbs. \$13.00.

**M.-S. FAIRWAY MIXTURE**—A mixture of grasses for fairways is to be preferred to any one grass and our fairway mixture will give splendid satisfaction wherever used. Where quick results are desired we recommend this mixture. 1 lb. 45c; 5 lbs. \$2.00; 10 lbs. \$3.75; 30 lbs. \$10.50.

**CERTIFIED PRINCE EDWARD ISLAND BENT**—A pure hardy strain of Rhode Island Bent (*Agrostis tenuis*). Grown on Prince Edward Island, Canada. It forms an ideal turf of dark green color and uniform in texture. Uniformity of texture is the principal requisite of a good putting green without which the ball will not roll true.

We offer Prince Edward Island Bent on its merits and without any attempt to disparage other bents, whether produced from seed or vegetatively. A pound contains about 6,000,000 seeds, 3 to 4 lbs. to 1,000 sq. ft. being sufficient for a green and 1 to 2 lbs. ample for lawn purposes. 1 lb. \$1.75; 5 lbs. \$8.00; 10 lbs. \$15.00; 100 lbs. \$125.00.

We wish to emphasize the fact that one of the important essentials for success in building lawns, lies in the abundant use of such as Vigoro, Sheep Manure, Bone Meal, etc.

PRICES ON GRASSES ARE SUBJECT TO MARKET FLUCTUATIONS



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Plant in succession.  
Keep your garden space  
busy all the time, and you  
will be eating fresh vege-  
tables all summer at a profit.

# Planting Calendar

Make Your Garden Work  
Spring, Summer, and Fall.

## FLOWERS

MARCH	
Sow Outdoors	
Sweet Peas.	
Plant Indoors	Set Out
Ageratum .....	May 1
Antirrhinum (Snap- dragon) .....	May 15
Asters .....	May 10
Carnation, Marguerite. ....	May 1
Celosia, Cockscomb. ....	May 1
Cobea scandens. ....	May 1
Heliotrope .....	May 10
Hollyhock .....	May 10
Lobelia .....	May 1
Pansy .....	May 1
Petunia .....	May 1
Salvia .....	May 1
Stocks (Gilliflower) ....	May 15
Verbena .....	May 1
Wallflower .....	May 1

APRIL	
Sow outdoors Nasturtiums.	
All those listed for March may also be planted in April, and, in addition, the following:	
Sow Indoors	Set Out
Alyssum .....	May 1
Calendula .....	May 1
Coleus .....	May 15
Cosmos, Late .....	May 1
Dahlias .....	May 1
Delphinium Chinese. ....	May 15
Gourds, Ornamental ...	May 1
Helianthus Sunflower. ....	May 1
Marigold .....	May 1
Mignonette .....	May 1
Nicotiana .....	May 1
Phlox Drummondii. ....	May 1
Poppy, Iceland. ....	May 15
Ricinus (Caster-Oil Plant) .....	May 10
Salpiglossis .....	May 10
Scabiosa .....	May 1
Vinca rosea .....	May 10
Zinnia .....	May 1

MAY	
This is the month of outdoor sowing and planting. The fol- lowing list of flowers com- prises those which may be sown in the open, and which will mature into perfection before frosty weather sets in.	
Sow Outdoors	
(Do not require transplanting)	
Sweet Alyssum	
Calendula	
Calliopsis	
Candytuft	
Centaurea (Bachelor's Button)	
Chrysanthemum, Annual	
Clarkia elegans	
Cosmos, Early	

MAY—Continued	
Delphinium Chinese	
Dianthus (Chinese Pinks)	
Eschscholtzia (California Poppy)	
Gaillardia (Blanket Flower)	
Godetia	
Ornamental Gourds	
Helianthus cucumerifolius (Miniature Sunflower)	
Hunnemannia fumariaefolia	
Larkspur, Annual	
Lupins, Annual	
Marigold	
Mignonette	
Morning Glory	
Nasturtiums	
Petunia	
Phlox Drummondii	
Poppy	
Portulaca	
Salpiglossis	
Scabiosa	
Verbena	
Zinnia	
and all other annuals (Should be transplanted)	
Asters	
Balsam	
Celosia (Cockscomb)	
Cosmos, Late	
Dahlias	
Marigold	
Mignonette	
Nicotiana	
Ricinus	

**JUNE**  
This is the month to sow  
perennials. The varieties listed  
below can easily be grown  
from seed. All of them may  
be sown from June till middle  
of September.

To Remain Where Sown	
Alyssum saxatile compactum	
Aconitum (Monks Hood)	
Aquilegia (Columbine)	
Asters, Hardy	
Coreopsis	
Campanula (Bluebells)	
Candytuft, Sempervirens	
Hibiscus	
Lupins	
Poppies, Iceland	
Poppies, Oriental	
Sweet William	
Valerian (Garden Heliotrope)	
To Be Transplanted	
Canterbury Bells	
Delphinium (Larkspur)	
Digitalis (Foxglove)	
Gaillardia grandiflora	
Hollyhocks	
Pyrethrum	

## FLOWERS—Continued

**JULY**  
This is the most important  
month for sowing some flower  
seeds. The following biennials,  
if sown in July and transplant-

ed in August or September, will  
flower the following spring.

Variety  
**Bellis** (English Daisies)  
**Pansies**  
**Myosotis** (Forget-me-not)

## Bulbs, Tuberous Roots and Potted Plants

MAY	
Plant Outdoors	
Begonias	Dahlias
Caladiums	Gladioli
Peonies	Tuberose
Cannas	

SEPTEMBER, OCTOBER AND NOVEMBER	
Hyacinths	Lilies
Tulips	Jonquils
Narcissus	Crocus
In fact, all Spring Flowering Bulbs.	

## VEGETABLES

MARCH	
The only vegetables to be planted out-of-doors in March. All early peas and onion sets. There are a number of vege- tables, however, which may be started indoors or in hotbeds.	
Plant Indoors	Set Out
Artichoke, Globe. ....	June 1
Cabbage, Early. ....	April 1
Cauliflower, Early. ....	May 1
Celery .....	June 1
Eggplant .....	May 15
Kohlrabi .....	April 15
Lettuce .....	April 15
Parsley .....	May 1
Pepper .....	May 15
Tomato .....	May 1

APRIL	
All the seeds mentioned in the March table can be started in April, and also the follow- ing:	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

MAY	
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

JUNE	
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

JULY	
This is the most important month for sowing some flower seeds. The following biennials, if sown in July and transplant-	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

AUGUST	
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

SEPTEMBER	
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

OCTOBER	
This is the month to sow perennials. The varieties listed below can easily be grown from seed. All of them may be sown from June till middle of September.	
Plant Indoors	Set Out
Beets .....	May
Brussels Sprouts .....	June
Cabbage, Late .....	June
Cauliflower, Late .....	June

MAY	
Plant Outdoors	
Asparagus Seed	Watermelon
Beans, Bush	Okra
Beans, Pole	Peas, Late
Corn, Sugar	Pumpkin
Cucumber	Squash
Muskmelon	

All the seeds mentioned in  
the April table may also be  
sown in May.  
Set out early cabbage, early  
cauliflower and tomato plants  
started indoors in March and  
April.

JUNE	
Plant Outdoors	
Beans, Late Bush	
Beans, Late Pole	

JULY AND AUGUST	
Plant Outdoors	
Stringless Green Pod Beans	
Stringless Wax Pod Beans	
Ruta Baga	
Winter Radishes	
Kale, Turnip	
Spinach	

SEPTEMBER AND OCTOBER	
Plant Outdoors	
Corn Salad, Spinach	
Kale, Multiplying Onion	

NOVEMBER	
Plant Under Glass	
Lettuce, Parsley	
Early Radishes	

## Grow Vegetables for Winter Use

After you have harvested your early crop of vegetables why  
not plant a second crop for winter use?  
It is in winter that vegetables cost most.  
Your garden can be made to save you a great deal of money  
if you plant succession crops during the summer and early fall.  
Sow Beets and Carrots any time during June. Turnips are  
sweetest if planted the latter part of June or early in July.  
Summer Radishes can be sown all during June and July.  
Sweet Corn sown the middle of June will give fine tender ears  
early in October. A row of Bush Beans planted during the first

week of July will bear an immense crop of juicy and snappy pods  
until frost.  
Cucumbers planted the last two weeks in June will make the  
finest pickles you ever raised.  
Also try a row of Chinese Cabbage. It does best if planted  
early in August. For a good supply of crisp and juicy Head  
Lettuce for the fall table, sow the seed about the second week in  
July. And don't forget to sow a long row of Spinach any time  
during August, to give plenty of greens until snow covers  
the ground.

## SPRAYING TABLE

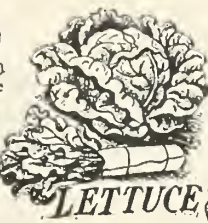
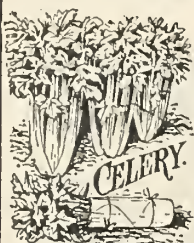
Use insecticides at the right time—and keep  
your plants and flowers free from insect pests

WHAT TO SPRAY AND WHAT TO SPRAY FOR	SPRAY WITH	TIME OF FIRST SPRAYING	TIME OF SECOND SPRAYING	TIME OF THIRD SPRAYING
<b>APPLES—</b>				
Bitter Rot.....	Bordeaux mixture, Pyrox.....	First appearance of rot.....	One to two weeks later.....	Two weeks later.
Canker Worm.....	Arsenate of lead, Pyrox.....	On first appearance of worms...	Two or three days later if worms remain.....	Same as second.
San Jose Scale.....	Scalecide or lime-sulphur. ....	Just as the leaf buds are swell- ing.....	Just before the flower buds open.	As soon as the petals have fallen.
Scab.....	Scalecide or lime-sulphur.....	After the leaves have come out, but before the flower buds ap- pear.....	Within eight days from the time petals drop.....	One month later
Codling Moth.....	Arsenate of lead, Pyrox.....	Within eight days from the time the petals drop.....	One month later.	
<b>ASPARAGUS—</b>				
Beetle.....	Arsenate of lead, Pyrox.....	Early spring.	Ten days later.....	Ten days later
Rust.....	Bordeaux mixture or Pyrox.....	After cutting crop.....		
<b>CABBAGE AND CAULI- FLOWER.</b>				
Slug Shot, Bug Death, Pyrox...	Slug Shot, Bug Death, Pyrox...	On first appearance of worms...	Whenever worms are noticed.	Before or after transplanting.
<b>CELERY</b> .....	Bordeaux mixture, Pyrox.....	On young seedlings.....	Repeat on seedlings.....	
<b>CHERRY—</b>				
Aphis.....	Black Leaf 40, Red Arrow	At first appearance.....	Repeat as necessary.	
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples.		
Leaf-spot.....	Scalecide or lime-sulphur.....	Just before blossoms open.....	When fruit is free from calyx.	
<b>CUCUMBERS—</b>				
Anthrachnose.....	Bordeaux mixture, Pyrox.....	When plants begin to run.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	When plants begin to run.....	Ten days later.....	Nine days later
<b>CURRENT—</b>				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	As leaves are unfolding.....	Two weeks later.....	Two weeks later.
Worm.....	White hellebore, Pyrox.....	When they first appear.....	In three or four days.....	Repeat three or four days later.
<b>GOOSEBERRY—</b>				
Leaf-spot.....	Bordeaux mixture, Pyrox.....	Before leaves start.....	Two weeks later.....	Two weeks later.
Worm.....	Same as for currants.			
Mildew.....	Grape dust, Pomo dust.....	When buds are breaking.....	Repeat every ten days until fruit is gathered.	
<b>GRAPE—</b>				
Anthrachnose.....	Bordeaux mixture, Pyrox.....	Just before the buds open.....	Just before blossoming.....	After fruit has set.
Berry Moth.....	Arsenate of lead, Pyrox.....	Before blossoms are ready to open.....	After blossoms have fallen.....	Ten days later.
Downy or Powdery Mildew...	Bordeaux mixture, Pyrox.....	Just before blossoming.....	After fruit has set.....	Ten days later.
Rot.....	Bordeaux mixture, Pyrox.....	Just before blossoming.....	Just after fruit has set.....	Eight days later.
<b>MUSKMELON—</b>				
Anthrachnose.....	Bordeaux mixture, Pyrox.....	When plants begin to vine.....	Two weeks later.....	Two weeks later.
Downy Mildew.....	Bordeaux mixture, Pyrox.....	July 25 to August 1.....	Ten days later.....	Nine days later.
Leaf-blight.....	Bordeaux mixture, Pyrox.....	When plants begin to vine.....	Three weeks later.....	Three weeks later
<b>PEACH—</b>				
Leaf-Curl.....	Scalecide, lime-sulphur or bor- deaux mixture.....	In March or April, or both, to make doubly sure.....	Two or three weeks later.	About one month before fruit ripens. Omit arsenate of lead.
Brown Rot.....	Self-boiled lime-sulphur and arsenate of lead.....	About time shucks are shed- ding from young fruit or on first appearance.....	After fruit has set.....	Repeat later when fruit is about half grown.
Stab.....	Sulfocide, self-boiled lime-sul- phur.....	Just as buds begin to swell.....		
San Jose Scale.....	Scalecide or lime-sulphur.....	Spray same as for apples		
<b>PEAR—</b>				
Leaf-blight.....	Bordeaux mixture.....	Cut out the branches on first appearance on twigs.		
Peylla.....	Black Leaf 40, Red Arrow or whale-oil soap.....	In winter use commercial lime- sulphur for eggs.	After blossoms fall.....	Repeat at intervals of three to seven days.
<b>PLUM—</b>				
Curcilio.....	Arsenate of lead.....	With starting of buds.....	Just after blossoms drop.....	Five days later.
Aphis.....	Whale-oil soap, Black Leaf 40 ..	On Appearance of Aphis.		
Shot-hole Fungus.....	Scalecide, lime-sulphur or bor- deaux mixture.....	When leaves are half grown.....	Three weeks later.....	Three weeks later if necessary.
Rot.....	Bordeaux mixture, Pyrox.....	As buds are swelling or on ap- pearance.....	Just after calyx drops.....	Three or four weeks later.
<b>POTATO</b>				
Early blight.....	Bordeaux mixture, Pyrox.....	When plants are 6 inches high..	Seven to ten days later.....	Two weeks later.
Late blight.....	Bordeaux mixture, Pyrox.....	As for early blight to July.....	July 15 to 20.....	Two weeks later.
Potato Beetle.....	Paris green, slug shot bug death, Pyrox, Calcium arsenate	When pest appears.....	Repeat if necessary.	
<b>RASPBERRY—</b>				
Anthrachnose.....	Bordeaux mixture, Pyrox.....	Before leaves open.....	When new canes are 6 to 8 inches high.....	Ten days later.
Saw-fly.....	Paris green and arsenate of lead or hellebore.....	When pest appears.....	Repeat in three or four days.	
Leaf-spot.....	Bordeaux mixture, Pyrox.....	When leaves are half grown.....	Two weeks later.....	Two weeks later.
<b>ROSE—</b>				
Leaf-spot.....	Pomo dust, All in one dust.....	On first appearance of fungus...	Two or three weeks later.....	Repeat if necessary.
Mildew.....	Powdered sulphur, Pomo dust, All in one dust.....			
Slug, Aphis, etc.....	Red Arrow, Evergreen, Black Leaf 40, Nicofume Liquid, All in one dust.....	On appearance of slugs, etc....	Repeat if necessary.	
<b>STRAWBERRY—</b>				
Leaf-spot.....	Sulphate of iron, bordeaux mix- ture, Pyrox.....	Soon after growth begins.....	Make three or four sprayings during season.....	The following spring spray just be- fore blossoming and again 10 days later.
<b>SQUASH—</b>				
Aphis.....	Red Arrow or Black Leaf 40	Spray under side of leaves.		
Lady Beetle.....	Arsenate of lead, Pyrox.....	As soon as pest appears.		
<b>TOMATO</b>				
Anthrachnose.....	Bordeaux mixture, Pyrox.....	Soon after fruit begins to set	Three weeks later.....	Three weeks later.
Leaf-blight.....	Whale-oil, soap and water.....	Three weeks after transplanting	Three weeks later.....	Three weeks later.
White Fly.....	Bordeaux mixture, Pyrox.....	Spray underside of leaves thoroughly		

## Bean Beetle Spread in Maryland Rapid.

Ravages of the Mexican bean beetle the past year in gardens and truck patches throughout the State has given us an opportunity to gain first-hand information concerning the destructiveness of this most recently acquired insect pest. We recommend Red Arrow Evergreen, Slug Shot, Beetle Dust, Calcium Arsenate 1 part and Hydrate Lime 7 parts as a dust. Also Copper Lime Dust 20-20-60, with the addition of one pound of Calcium Arsenate to each fifty gallons of spray has proved to be satisfactory. For small areas, one level teaspoonful of Calcium Arsenate to each gallon of Bordeaux will give the proper proportion. Sprays to be effective, it is pointed out, should be directed upward to cover the underside of the leaves where the beetles do their feeding. Calcium Arsenate should not be used after the bean has set. All beans sprayed or dusted should be washed before using.





## Vegetable Plants and Roots

Cash with Order — No Plants Sent C. O. D.

All of our plants are produced from our M.-S. SURE GROWING SEEDS, and will give wonderful results. If wanted in larger quantities, write for special quotations. The time when plants are ready is greatly controlled by the season, the specified time is the earliest date.

### ARTICHOKES (Ready in April)

Jerusalem—Used for the table and stock feeding. Qt. 35c; peck \$1.50; per bushel of 60 lbs. \$5.00.

### ASPARAGUS ROOTS (Ready Oct. 15 to May 15)

Two-year-old roots usually produce second year after planting.  
2-Year-Old Roots. Doz. 100 1000  
Columbian Mammoth White (White) \$0.30 \$1.25 \$ 9.00  
Palmetto (Green Stalks)..... 0.30 1.25 9.00  
Mary Washington (Dark Green Stalks) 0.50 1.75 12.00  
If wanted by mail add 10c to doz.; 15c to 100; 35c to 1000.

### BORECOLE PLANTS (Ready July 1)

20c doz.; 75c per 100; by mail, add 5c to doz.; 15c to 100.

### BRUSSELS SPROUTS (Ready in July)

Matchless Improved—12 for 25c; 75c per 100; per 1000, \$6.00.  
If wanted by mail, add 10c per 100 for postage; 5c per doz.

### FROST-PROOF CABBAGE (January to May)

Our FROST-PROOF CABBAGE PLANTS mean increased profits for the Market Gardener, and earlier cabbage for the Home Gardens, as they produce heads at least two or three weeks earlier than plants grown in hot beds or cold frames. They are tough and hardy and will stand any reasonable cold, even as low as 20 degrees above zero without damage to them.

These plants do not begin any new growth of their tops until the spring weather arrives, however, the roots of the plants have become so firmly established that the warm spring sunshine soon hastens the growth of them.

We advise all cabbage growers to set these plants at least a month to six weeks earlier than you would set home-grown plants to get the desired results.

Send in your order about a week or ten days before plants are wanted, as it takes a few days to get plants to you.

Varieties—Early Jersey Wakefield, Charleston Large Wakefield, Copenhagen Market, Early Flat Dutch and Succession.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express, customer paying express charges: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000; cash with order.

See Special Onion and Cabbage Pack.

### CABBAGE PLANTS (Season beginning April 1)

Early Flat Dutch and Jersey Wakefield—From hot beds. 15c per doz.; 50c per 100; per 1000, \$4.00.

Late Flat Dutch and Savoy—15c doz.; per 100, 50c; \$4.00 per 1000. If cabbage plants are wanted by mail, add 10c per 100; 5c dozen; 25c 1000. Ready May 15th.

### CAULIFLOWER PLANTS (Ready April 1)

Snowball, variety only—From hot beds. 25c per doz.; \$1.50 per 100. By mail, add 5c per doz., or 10c per 100 for postage charges.

### CELERY PLANTS (Ready in July)

Golden Heart, White Plume, Giant Pascal, Winter Queen and Golden Self-Blanching. 25c dozen; \$1.00 per 100; \$7.50 per 1000. By mail, allow 10c per 100 for postage; 5c per dozen.

### EGG PLANTS POTTED (Ready after May 1)

M.-S. Ebony King and Black Beauty—7c each; 75c doz.; \$5.50 per 100. Best sent by express. Mail, add 2c to each plant.

### HORSE RADISH ROOTS (Ready in March)

Maliner Kren (Bohemian)—Large, strong cuttings, 35c per doz. per 100, \$1.00; \$7.00 per 1,000. If Horse Radish are wanted by mail, add 10c per 100 for postage; 5c per doz.

### LETTUCE PLANTS (Ready April 1)

Leading varieties—10c doz.; 50c per 100; \$4.00 per 1,000. If wanted by mail, add 10c per 100 for postage; 5c doz.

### CRYSTAL WAX AND YELLOW BERMUDA ONION PLANTS (January to May)

Onion Plants are fast taking the place of the old dry sets. Our Onion Plants are grown from the best and purest seed obtainable, bred up to the highest degree which assures you that they will not revert back to the hot red onion. The Bermuda Onion is very sweet and mild and can be eaten like an apple. Onion Plants produce the matured onion two weeks or more ahead of the dry set on account of the fact that the dry set has to be absorbed by the new growth before it begins to grow the new onion, whereas the plant begins to grow as soon as it is planted and makes more headway than the set and gives you young green table onions in a very few weeks. Onion Plants do not produce splits and doubles or run to seed like the dry sets. They will stand the most severe cold weather, even more than Cabbage Plants, and when the tops are frozen to the ground they will come out again and produce the finest onions. For small gardens these plants may be planted in rows 6 inches apart and 4 inches apart in the drill and on a spot 12 feet square it will take almost 1,000 plants.

All Onion Plants are tied 100 to the bunch and all orders should be sent in for even hundreds.

Remember that our Plants are GUARANTEED to reach you in good condition and full count and if you are not entirely satisfied your order will be refilled without question FREE OF CHARGE.

Prices by parcel post prepaid: 50c per 100; 500 for \$1.60; 1,000 or more at \$3.00 per 1,000 plants.

By express charges collect: 1,000 to 4,000 at \$2.00 per 1,000; 5,000 or more plants at \$1.50 per 1,000.

Plants grown on Paper Mulch mature quicker and are of finer quality.



### PEPPER PLANTS (Ready in May)

California Wonder (Sweet), Long Red Cayenne (Hot).—Hot Bed Grown. 25c per doz.; per 100, \$1.50. By mail, add 10c per 100; 5c doz.; Potted Plants, California Wonder only, 6c each; 60c doz.; \$4.50 100; if to go by parcel post, add 1c to each plant.

### RHUBARB ROOTS

(Ready October to May 15)

Victoria—First Size Roots. 10c each; \$1.00 per doz.; per 100 \$7.50. Allow 5c each or 20c dozen for postage, if wanted by mail.

### SWEET POTATO PLANTS (Ready May 15th)

Yellow Big Stem and Up Elvers—50c per 100; 1,000, \$4.00. If wanted by mail, allow 8c per 100 for postage, 25c per 1,000.

### TOMATO PLANTS (Ready after April 15)

Pot-Grown Plants in the following varieties only: Early Wonder, Bonnie Best, Chalk's Jewel, 7c each; doz. 75c; \$5.50 per 100. By mail, add 1c per plant.

Hot-Bed Plants: Bonnie Best, Marglobe, Stone. 20c per doz.; per 100, 60c; \$4.00 per 1000. By mail, allow 5c per doz.; 15c per 100; 40c per 1000.



We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs., 1 lb. of Vegetable Seeds.

## Asparagus—Seeds and Roots

(German—Spargel. French—Asperge)  
(ROOTS READY AFTER MARCH 1st)One ounce to forty feet of drill; 5 lbs. per acre.  
7,300 Asparagus Plants are needed to plant an acre.

**CULTURE**—Sow in March or April, in rows one foot apart. When two years old transplant into permanent beds, which should be well and deeply manured, and trenched to the depth of two feet. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow eighteen inches between the rows; set the plants from four to six inches below the surface. If set out in autumn, top-dress with six inches of manure. For market on a large scale, set out four by one and one-half feet. On the approach of winter, cover with manure or compost; fork the beds early in spring, and apply a dressing of salt. Cut for use the second year after planting in permanent bed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slaked lime or paris green.

**Columbian Mammoth White**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**Mary Washington**—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust-free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green.

tinted darker at the tips. It is a early heavy yielder of exceptionally fine flavor. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Palmetto**—It is of very large size, even and regular in growth and appearance. It is a very early sort, and immensely productive and of the best quality. Green shoots. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

For Plants, see page 5.

## Artichokes

**Large Green Globe**—This is a very delicious vegetable. Some prefer it cooked like asparagus—that is, take the flower head before it begins to open and cook much the same as asparagus. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.40; 1 lb. \$5.00.

**Artichoke Roots (Jerusalem)**—Price, see page 5.

## Brussels Sprouts

(German—Rosenkohl)  
(French—Choux de Bruxelles)

A variety of the Cabbage family, possessing the peculiarity of bearing upon its stem or stalk from fifty to one hundred buds resembling miniature Cabbage heads. The leaves composing these heads resemble Savoy Cabbage in their crumpled texture and also in their color. The heads or buds, one to two inches in diameter, form one of the most delicious garden vegetables, only equalled by the Cauliflower. Treat same as Cabbage.

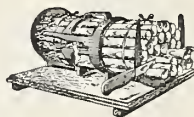
**Improved Dwarf**—Produces compact sprouts of finest quality; a good keeper. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

For Plants, see page 5.



Improved Dwarf Brussels Sprouts.

## Accessories for Asparagus Culture



**Asparagus Buncher**—Even where one has a limited amount of asparagus to market it pays to use a buncher. It is quickly tied and looks uniform. With Knife Guard, \$4.50. Parcel post weight, 8 lbs.

**Asparagus Knife**—V-shaped blade, 40c. Parcel post wt., 1 lb.

**Asparagus Salt**—Applied in the Spring, 600 to 800 lbs. per acre, for destroying weeds. 3c lb.; 50-lb. \$1.00; 100 lb. \$1.50; 140 lb. bag \$2.00.

**Raffia**—The ideal material for tying asparagus, 30c per lb. in hanks.

Hank runs about 2 $\frac{1}{2}$  lbs. 25 lbs. or more at 25c per lb. Green Raffia 35c lb.

**Jute Twine**—Very soft and pliable.

25c per ball. Postpaid 30c.

Special price on quantities on application.

**Red Tape** for tying asparagus, 1000 yds., \$2.75. Postp'd \$2.85.

PRICES  
SUBJECT  
TO  
CHANGE



Two-Year-Old Asparagus Plants, see page 5.

## Broccoli

(German—Spargelkohl)  
(French—Buocoli)

A plant much resembling the Cauliflower. Broccoli requires a longer season to develop than Cauliflower. It has more numerous and stiffer leaves; heads are smaller. Treat same as Cabbage.

One ounce of seed to 200 feet of row.

**Early Large White**—Heads medium size, close and compact. One of the most certain to head. Pkt. 10c; oz. \$1.00.

**Early Purple Cape**—Rather hardier sort, with greenish-purple heads, good flavor. Pkt. 10c; oz. \$1.00.

## Italian Sprouting Broccoli

**CULTURE**—Sow about middle of August in rows 32 in. apart well fertilized, using 2 lbs. of seed to the acre, covering the seed  $\frac{1}{2}$  in., cultivate twice before freezing weather. In cold weather tops will die down. As soon as it begins to get a little warm in February, put on a top dressing of Nitrate of Soda or some quick acting fertilizer. Cultivate after top dressing is put on. About the middle of March it will commence to stalk up with several shoots per stalk, with green blossoms. When stalks are about 8 inches high cutting may commence. Tie in bunches like asparagus, with one to one and a half lbs. in a bunch. Ship in crates, 2 doz. bunches per crate. Cutting will commence around the middle of March and continue until around the 10th of April. If weather is warm may cut 2 to 3 times each week. After cutting is over the same land may be used for any desired crop. Leaves may be cut and shipped to northern markets, commanding a fair price.

Served like Asparagus or Greens, it makes a delicious and wholesome dish.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.

## Italian Broccoli Calabrese

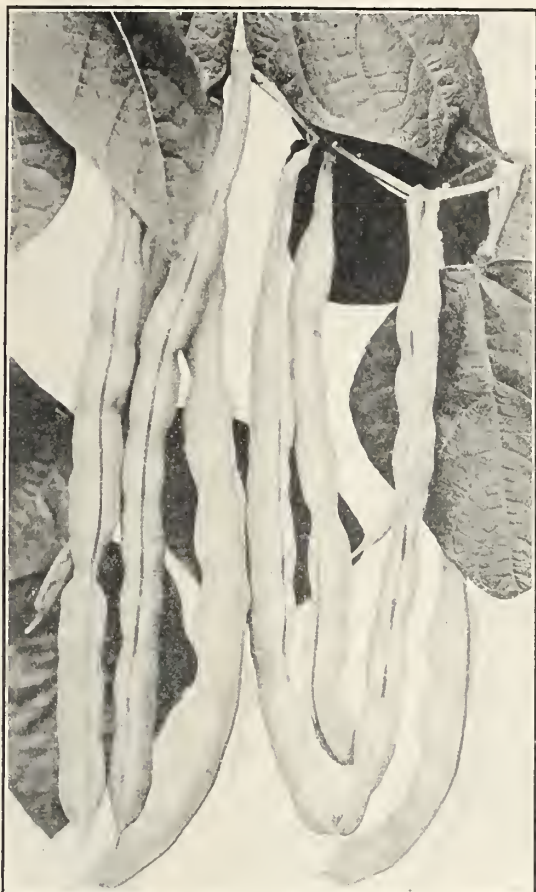
This variety is the broccoli which is served in the first class hotels of Metropolitan cities. It is cooked and served like cauliflower; it has a delicious flavor and is highly praised by epicures.

**CULTURE**—Sow seed in open ground 1st of April. Set plants out May 15th to June like late cabbage. Pkt. 25c;  $\frac{1}{2}$  oz. 60c; 1 oz. \$1;  $\frac{1}{4}$  lb. \$3; 1 lb. \$10.



Italian Broccoli-Calabrese.





M.-S. Sure Crop Stringless Wax.

## BUSH BEANS—Green Podded

If beans are to be sent by parcel post, add 5c to  $\frac{1}{2}$  pt.; 8c to pt.; 9c to qt.; 15c to  $\frac{1}{2}$  pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.

**CULTURE**—The seed should not be planted before the ground becomes light and warm, in favorable seasons, usually about the middle of April to first of May. The soil should be rich and mellow, and the seeds scattered about three inches apart in drills two feet apart, and covered about two inches deep. Successive sowings made at intervals of about two weeks until August 15th, will give a plentiful supply of Beans all season. One quart of seed will sow 100 feet of drill; two bushels will sow an acre. We furnish 10c packages of all Beans.

**Burpee's Stringless Green Pod**—An ideal variety having round slightly curved, fleshy and exceedingly tender pods. Matures a few days earlier than the Giant sort. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; 1 qt. 60c;  $\frac{1}{2}$  pk. \$2.25; peck \$4.25; bushel \$16.00.

**M.-S. Giant Stringless Green Pod Beans**—Of finest quality, large handsome pods, some of which measure fully 6 inches in length. Very productive, very fleshy and entirely stringless. Specially adapted to the home garden. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; 1 pt. 40c; 1 qt. 75c;  $\frac{1}{2}$  pk. \$2.75; peck \$5.00; bushel \$17.50.

**Bountiful**—Easily the earliest and most productive flat, green-podded, stringless bush bean in cultivation today. Under favorable conditions of soil and season this variety has been known to bear one bushel of pods per 15-foot row, in the course of the season. The pods average 6 inches long by  $\frac{3}{4}$  inches wide, are thick through, of pleasing light green color, very brittle and absolutely stringless at all stages of development. Bountiful tastes as good as it looks. Prices same as above.

**Early Red Valentine**—One of the most popular early snap beans with round, fleshy pods about five inches in length; very brittle, tender and of fine quality. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; 1 qt. 60c;  $\frac{1}{2}$  pk. \$2.00; peck \$4.00; bushel \$15.00.



**Black Valentine, or May Queen**—Has very long handsome round pods, and being immensely productive places this variety as one of the most profitable for the market gardener. It is very early. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; 1 qt. 60c;  $\frac{1}{2}$  pk. \$2.00; peck \$4.00; bushel \$15.00.

PRICES SUBJECT TO CHANGE.

**New Stringless Greenpod**—Pods absolutely stringless, round, slightly curved, medium green, recommended for canners, also as a late sort for market garden and home. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; pint 40c; quart 75c;  $\frac{1}{2}$  pk. \$3.00; peck \$5.50; bushel \$20.00.

**Full Measure**—A recent introduction. Heavy light green foliage. Very prolific. Pods  $5\frac{1}{2}$  to 6 inches long, stringless, round, slightly curved, very good quality. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; 1 pt. 40c; 1 qt. 75c;  $\frac{1}{2}$  pk. \$3.00; peck \$5.50; bushel \$20.00.

**Dwarf Horticultural, or Cherry**—This is a broad, long flat meaty bean, very productive, of delicious flavor; absolutely stringless. It also makes a good dried bean for winter.  $\frac{1}{2}$  pt. 25c; pt. 40c; qt. 75c;  $\frac{1}{2}$  peck \$3.00; peck \$6.00.

**Masterpiece**—This is a large, flat-podded variety, especially adapted for growing under glass, though it may be grown successfully outdoors. Pkt. 10c;  $\frac{1}{2}$  pt. 30c; pt. 50c; 1 qt. \$1.00.

## Shell Beans For Winter Use

**White Navy, or Boston Pea Beans**—Yields large quantities of white shell beans, which are used for baking. Pkt. 10c;  $\frac{1}{2}$  pt. 15c; pt. 25c; qt. 40c;  $\frac{1}{2}$  peck \$1.25; peck \$2.50; bus. \$9.00.

**White Marrowfat**—Planted almost exclusively for winter use, making large white, kidney shaped beans. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; pt. 40c; qt. 75c;  $\frac{1}{2}$  peck \$2.75; peck \$5.00.

## BUSH BEANS—Wax or Yellow Podded

**M.-S. SURE CROP STRINGLESS WAX**—This is a grand bean. Absolutely stringless and a great rust resister. Will produce an abundance of long yellow flat pods. Pkt. 10c;  $\frac{1}{2}$  pt. 20c; 1 pt. 35c; quart 60c;  $\frac{1}{2}$  peck \$2.25; peck \$4.25; bushel \$16.00.

**Currie's Rust-Proof Black Wax**—Valuable for general use, being early, hardy, and a heavy yielder. Extra long flat pods of fine color and not apt to rust. Price same as above.

**Davis Kidney Wax**—Beans handsome flat yellow pods. White seed. Price same as above.

**Improved Golden Wax**—Small plants of erect growth, bearing flat thick pods about 5 inches in length, and of excellent quality. An early and reliable variety, recommended for home use. Price same as above.

**Round Pod Kidney Wax**—As its name implies, this is a round podded bean, which is very brittle and juicy. Pkt. 10c;  $\frac{1}{2}$  pt. 25c; 1 pt. 40c; 1 qt. 75c;  $\frac{1}{2}$  peck \$3.00; 1 peck \$5.50; bushel \$20.00.



M.-S. Giant Stringless Green Pod.

If beans are to be sent by parcel post, add 5c to  $\frac{1}{2}$  pt.; 8c to pt.; 9c to qt.; 15c to  $\frac{1}{2}$  pk.; 22c to pk.; 75c to bus.; pkt. sent postpaid.



## Pole String Beans (GREEN AND WAX POD)

CULTURE—Same as Pole Lima.

**M.-S. Golden Cluster Wax**—Deep yellow flat pods, often 8 inches long. Heavy yielder, bearing in large clusters. Pkt. 10c; ½ pt. 20c; pt. 35c; qt. 60c; ½ peck \$1.75; 1 peck \$3.25.

**M.-S. Kentucky Wonder Wax**—Same as the above Kentucky Wonder with exception of beautiful yellow pods. Price same as above.

**Yard Long, or Snake Beans**—This is an ornamental as well as useful pole bean. Produces an abundance of dark green foliage and stringless green pods, often measuring from two to three feet long, which when cooked make a delicious dish. Seeds very small. Pkt. 10c; oz. 25c.

**Kentucky Wonder, or Old Homestead**—The most popular of the pole varieties, and it should be in every garden where beans are planted. It grows luxuriantly and bears for a long period. Pods are very long, very fleshy and deeply creased or saddle-backed, green in color and stringless. Seed light brown. Pkt. 10c; ½ pt. 20c; 1 pt. 30c; qt. 50c; ½ pk. \$1.75; peck \$3.00.

**Lazy Wife, or White Cherry**—Pods 6 to 8 inches long, entirely stringless, of a rich, buttery flavor when cooked as a snap bean; also a good, white shell-bean for winter. One of the very finest flavored. Price same as above.

**Horticultural or Pole Cherry**—Pods green, dashed with red when beans are matured. Very showy. Price same as above.

## English, or Broad Windsor Beans

CULTURE—Same as Bush Limas, only plant thinner. A bean similar to Lima Beans, but a different flavor and larger. Should be planted early, March or April, as they are very hardy. Pkt. 10c; ½ pt. 20c; 1 pt. 35c; 1 qt. 50c; 1 peck \$3.00.

We furnish 10c packages of all Beans.

## Bush Lima Beans 1 qt. to 100 feet of drill.

CULTURE—Plant in rows two feet apart, and about one foot apart in the rows.

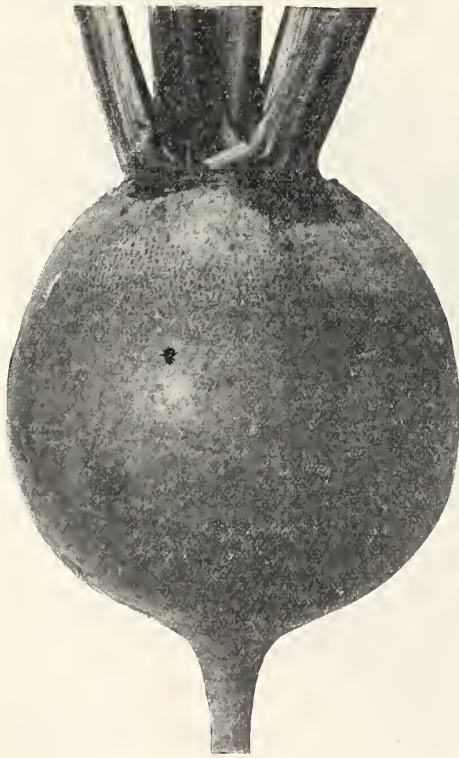
**M.-S. Enormous Bush Lima Beans**—As the name implies, these are truly enormous, bearing in abundance, large pods which are filled with delicious large beans. Pkt. 10c; ½ pt. 25c; pt. 40c; qt. 75c; ½ peck \$2.75; peck \$5.00; bus. \$18.00.

**Fordhook Bush Lima**—Beans large, round, thick, green and of delicious flavor, bearing in clusters of from 4 to 8 averaging 4 large beans to the pod. Price same as above.

**Burpee's Bush Lima**—Pods abundantly and well filled with handsome flat beans. Price same as above.

**Burpees Improved Bush Lima**. Bears an abundance of thick kidney-shaped beans. Price same as above.

**Henderson's Dwarf Lima**—Beans are small but their flavor is excellent. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; 1 peck \$3.25; bus. \$12.00.



M.-S. Strain Detroit Dark Red Beet.

(German—Rote  
Rueben.  
French—Bette)

One ounce of seed  
sows 60 ft. of drill;  
5 lbs. will sow an  
acre in drills.

CULTURE—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early sow in hot-beds and transplant; but for main crop sow in the Spring as soon as ground becomes fit to work, in drills 18 ins. apart and 2 inches deep. For winter use sow as late as July. When the plants have attained 3 or 4 inches in height thin out so that they stand 5 to 6 inches apart. Keep free from weeds. Before freezing weather sets in the roots may be stored

## Pole Lima Beans

CULTURE—These require pole 8 to 10 feet long. The beans should be planted in May if the season is suitable. Set poles four feet apart each way, and plant 4 to 6 beans, about 1 inch deep, around each pole. Thin out to three plants to a pole, if the soil is rich; pinch off the ends of plants when they overrun the top of the poles to effect a more perfect growth below. Lima Beans for early use may be grown in frames and transplanted. 1 quart to 100 poles.

**Early Leviathan**—The earliest large pole lima; very productive. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; peck \$3.25; bus. \$12.00.

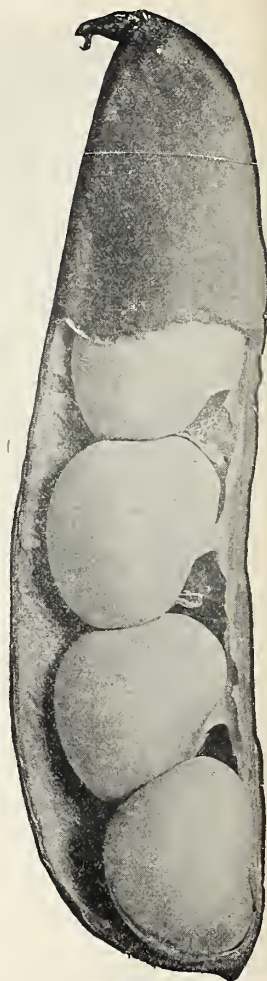
**King of the Garden**—Vigorous grower, bearing large pods, 5 to 8 inches long. Beans large and of rich flavor. Price same as above.

**Sieva or Small White Lima**—(Butter Bean.) Early and productive, a great drought resister, smaller than regular limas, but juicy and of fine flavor. Price same as above.

**Dreer's Improved, or Potato Lima**—Beans round and thick, of delicious flavor, easy to shell, immense crop. Price same as above.

**Large White**. Used mostly as a shell bean. Price same as above.

**M.-S. Giant-Podded**—Is the largest of all Pole Limas. The pods measure from 7 to 8½ inches in length with a width of 1½ to nearly 2 inches. The beans are extra large. They are invariably of superb flavor. The vines easily attain a height of from 10 to 12 feet. The pods are produced in clusters of from 4 to 8 until killed by frost. Pkt. 10c; ½ pt. 25c; 1 pt. 40c; 1 qt. 60c; ½ peck \$2.00; 1 peck \$3.75; bus. \$14.00.



Fordhook Bush.

## TABLE BEETS

in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

**M.-S. Strain Detroit Dark Red Beet**—Like the Detroit Dark Red, but runs more uniform in shape and color, positively the best beet for the truck farmer, as they always bring top-notch prices on the wholesale market, or at the packers. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Wizard Brand Sheep Manure**—Apply 1,000 lbs. per acre. For garden, lawn or greenhouse use. This is where you get a whole cart load of manure in a 100-lb. bag at a much lower figure. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25.00; per ton, \$47.50.

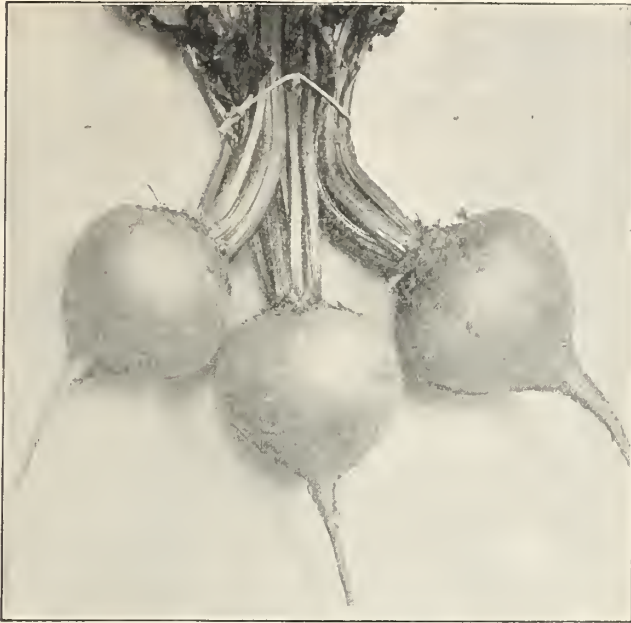
**Wizard Brand Cow or Cattle Manure (Shredded)**—Convenient to handle, making it possible for everyone to get this usually scarce article at all times. This is where you get a wagon load of manure in a 100-lb. bag. 2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.50; 500 lbs. \$16.25; 1,000 lbs. \$30.00; per ton, \$55.00.

If sheep or cow manure is to be sent by parcel post, include postage as to zones, for rates see introductory page, in front of catalogue.

F. W. Koether, Alvarado Avenue, Parkville, Md., tells us that he received first prize in "Evening Sun" Contest on a vegetable garden grown from M.-S. Seeds.







M.-S. Early Marvelous Beet.

### "M.-S." EARLY MARVELOUS BEET

The Ideal Beet for the market or home garden; in shape it is nearly a perfect globe, about 10 inches around with smooth skin free from rootlets; the flesh is a rich blood red nicely ringed, never stringy, and always tender and sweet; excellent for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**Extra Early Flat Egyptian**—Maturing in an incredibly short time. Bulbs half globular, or flattened at the poles; roots very slim, skin smooth, leaves red and green, flesh quite dark. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.



Crosby's Improved Egyptian Beet.

desirable shape for bunching. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

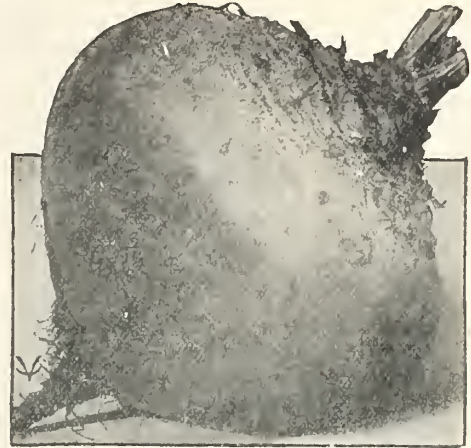
WE PAY POSTAGE ON PKTS., OZS.,  $\frac{1}{4}$  LBS. AND LBS.

F. W. Koether, Alvarado Avenue, Parkville, Md., tells us that he received first prize in "Evening Sun" Contest on a vegetable garden grown from M.-S. Seeds.

**Crosby's Improved Egyptian**—Very desirable. Thicker in body than the Egyptian, small necked and dark fleshed. Fine for early market. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**Extra Early Eclipse**—Maturing in an incredibly short time, round-shape beet. Small top, and of excellent table quality. Makes an attractive seller in market. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**Early Wonder**—A very early dark red beet similar to Crosby's Egyptian in shape. Its earliness and deep color make it a favorite with the market gardeners in many sections of the country. It is sweet and tender and a good variety for the home garden. The tap roots are small and the roots are of a



Extra Early Eclipse Beet.

**Detroit Dark Red Beet**—A blood red, early, turnip-shaped variety. Has small upright top; fine round shape. Skin and flesh dark blood red. Very tender and sweet. Remarkably uniform in growth and a particularly desirable sort for truckers and market gardeners. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**Long Smooth Dark Blood**—This variety has long, slender roots. The beets are seldom more than two inches through. Matures rather late, but is an excellent keeper. The flesh is dark red and quality sweet and tender. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**BEET PLANTS**, see page 5.

**Crimson Globe**—A second early variety, does not grow large and coarse, the matured beets being medium in size and good shape. The flesh and skin are both very dark and quality fine, being sweet and tender. The tops are small and dark in color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**SWISS CHARD**, see page 23.

### Cow Beets

**MANGEL-WURZEL**  
(German—Runkelruuben)  
(French—Betterave)

Used for feeding cattle.  
Sow five pounds per acre.

**CULTURE**—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 ins. and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel.

**Golden Tankard**—The best long yellow mangel in cultivation. Relished by milch cows and sheep. Maturing earlier than other large sorts. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c; 5 lbs. \$3.00.

**Jumbo Mangel**—Immense, long, red, very fine quality. Price same as above.

**Gate Post Mangel**—Large, yellow, excellent sort. Price same as above.

**Mammoth Long Red**—This is an enormously productive variety, yielding from 50 to 70 tons to the acre, a single root often weighing 20 to 40 lbs. The best long red mangel and very valuable for stock feeding. Price same as above.



Gate Post Mangel Beet.



We pay postage on pkts., ozs.,  $\frac{1}{4}$  lbs. and 1 lbs.**M.-S. CHOICE CABBAGE SEED**

(GERMAN—KOPFKOHL. FRENCH—CHOU)

One ounce will produce about 2,500 plants; one-quarter pound for transplanting an acre.

**Culture**—Sow seeds in January or February in hotbeds, and transplant latter part of April or early in May to open ground, or an early sowing in open ground can be made as soon as weather will permit. Set the plants in rows two feet apart, and 12 to 18 inches apart in the row. For second early sow in April and transplant in May, or sow in May and transplant in July, setting plants in rows three feet apart and two feet in rows. Never plant in the same ground two years in succession.

**Early Varieties**Golden  
Acre Cabbage,  
Earliest  
Flat.

**M.-S. Golden Acre**—This is an extra early strain of Copenhagen Market maturing about ten days earlier. It will mature heads in eighty days from time of sowing, measuring nine inches in diameter, with a uniform weight of five pounds. Height of stalk is 2 ins. and entire plant consists of thirteen leaves which allows close planting. Pkt. 10c; oz. 60c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.00.

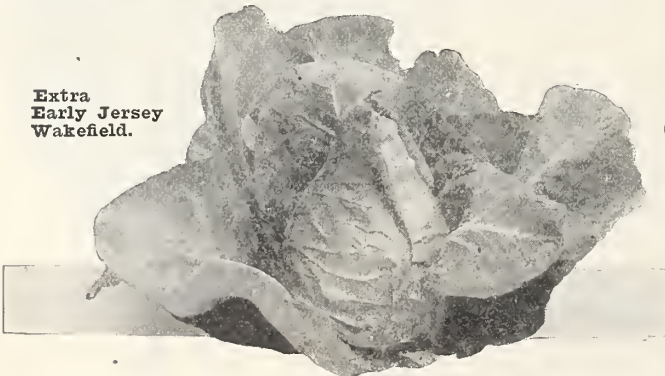
**COPENHAGEN MARKET**—A valuable new early cabbage from Denmark, producing a large globe-shaped solid head, which comes into market along with Charleston Wakefield. Our seed comes direct from the originator, makes few loose leaves, it is a vigorous grower and an excellent keeper. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.75.

**New Early**—The largest of the early cabbage. Head roundish flat, remarkably solid. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Flat Dutch**—A dwarf-growing type, principally used for early summer. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Jersey Wakefield**—The finest oblong-shaped cabbage in existence. The head is solid, there being very few outside leaves. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Extra Early Jersey Wakefield**—Our strain of this excellent extra early, pointed head sort is without a doubt the earliest cabbage of the day. Heads are smaller than Early Jersey Wakefield, but are solid and extremely uniform in both green color and size. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

Extra  
Early Jersey  
Wakefield.

J. W. Marvel, of Stevensville, Md., says that our Extra Early Jersey Wakefield Cabbage produces the finest, truest heads he has ever seen; he was hauling to the market May 10, 1929.

**Large Charleston Wakefield**—Similar to Early Jersey, but the heads are more blunt, equally as solid, while almost twice the size, but matures one week later. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

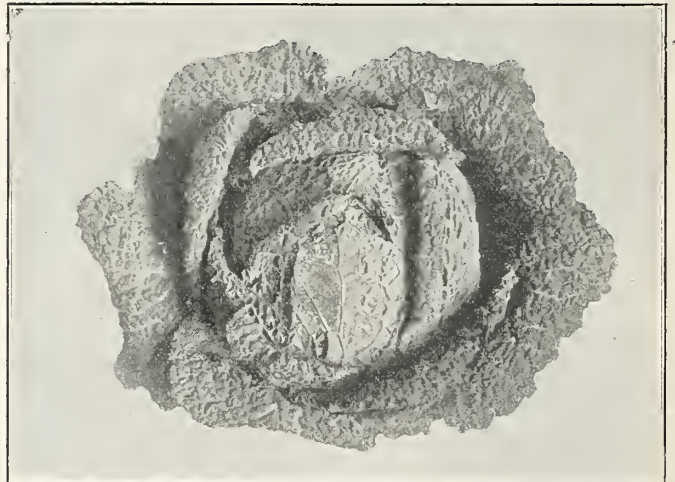
**Early York**—Resembles the Early Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Early Winnigstadt**—Resembles Charleston Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Second Early Varieties**

**Early Drumhead**—A large solid roundish flat-headed sort with few outer leaves. One of the best sorts to follow the Large Charleston Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Succession**—A very popular sort with the market gardeners. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

M.-S. PERFECTION DRUMHEAD SAVOY CABBAGE  
(German—Wirsing Kohl. French—Choufrise.)**Late, or Winter Varieties**

**Perfection Drumhead Savoy**—A beautifully crimped-leaved sort, color a deep glossy green. The head is almost round. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Red Dutch Drumhead**—A red variety, used extensively for pickling. Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**All Seasons (Vandergaw)**—A very large head round and solid. It is valuable for Summer or Winter use. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Danish Ballhead**—An elegant medium late variety. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 85c; 1 lb. \$3.00.

**Late Flat Dutch**—Improved Strain. This has been selected especially for our trade, and seed was taken from the finest type of heads which were selected for solidity and uniformity. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Chinese Celery Cabbage**

**Pe-Tsai**—Improved Chinese Cabbage. The market appearance of this cabbage in quantity the past few years has created a widespread demand for the seed. It is very easily grown and does well in nearly all parts of the country. It should be grown like a late cabbage, planting in July (turnip planting time), as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedlings thinned two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or as a salad, or cooked. Boiled, minced and seasoned with butter, it is especially delectable. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.75.

**Cardoon**

Grown for its stalks which make a delicious vegetable. Pkt. 10c; oz. 50c.



## Carrot

(German—Moehre  
oder Gelbe Renbe.  
French—Carotte)

One ounce to 100  
feet of row. 2 or  
3 lbs. to acre.

**Culture**—A light,  
loamy soil that  
has been well  
manured the pre-  
vious year is pre-  
ferred for growing  
carrots, although  
good crops may  
be obtained from  
ordinary garden  
soil. For early  
use seed may be  
sown in hotbeds  
from January un-  
til March, and in  
the open ground  
as soon as the  
weather becomes  
warm and settled,  
usually in April.  
Sow seed one-half  
inch deep in rows  
15 inches apart,  
and later thin to  
five inches in the  
row. Keep soil  
between the rows  
well hoed and free  
from weeds. From  
July 1st to 15th  
sow for Winter  
crops.

**M.-S. SOUTH-**

**ERN PRIDE**—An

ideal medium early

stump-rooted Car-

rot; smooth and

uniform in shape,

averaging five inches in length, with thick,

heavy shoulders, rather large tops and deep

orange color, almost coreless and of fine fla-

vor. Positively the best carrot for home

garden or market. Advisable for truckers.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.**

**Parisian Forcing**—Extremely early, of small size, but very

sweet, tender and beautiful orange-red color. Same price as above.

**Chantenay**—Top medium sized, neck small, roots tapering

slightly but uniformly stump-rooted and smooth; color deep

orange-red; flesh very crisp and tender. Price same as above.

**Pride of Market Carrot**—Similar to the above. Same price.

**Danvers, or Half-Long Orange**—Owing to its enormous yield,

this variety is the best and most profitable for main crop, also

desirable for feeding cattle. It is somewhat longer than Chante-

nay. Price same as above.

**M.-S. Strain Danvers Carrot**—Like the above, but runs more

uniform in shape and darker in color. Advisable for truckers.

Price same as above.

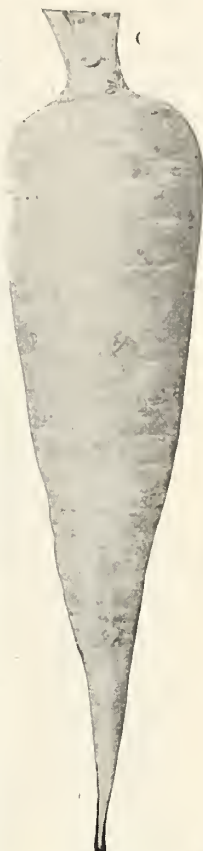
**Oxheart or Guerande**—A short thick carrot not exceeding four

inches in length and about the same in width which does quite

well on hard, heavy soils where the longer varieties are useless.

Price same as above.

M.-S. Southern Pride  
Carrot.



Danvers Half-Long.

## Georgia Collards

Sprouts and Kale; will be found very delicious if you have  
never tried it; give it a place in your garden this coming sea-  
son. **Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.**

**Culture** like Cabbage. The  
lower leaves are pulled off  
and used same as Cabbage



Corn Salad.

## Corn Salad

(German—Acker Lattig.  
French—Mache)

**Culture**—Sow in  
Spring, in drills  
one foot apart; it  
will mature in six  
to eight weeks.  
For Winter and  
early Spring use,  
sow in drills in  
August and Sep-  
tember. Three  
ounces of seed to  
100 feet of drill.  
Will do well if  
sown in spring.

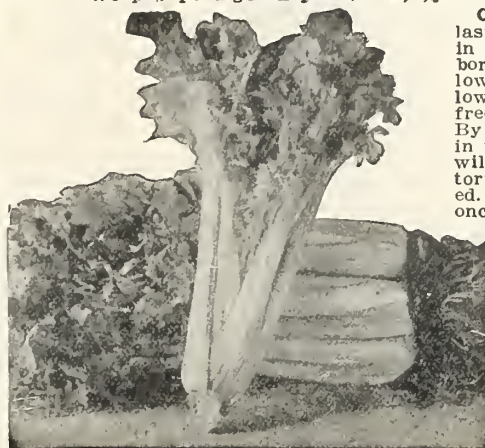
**Large Leaved**—  
**Pkt. 10c; oz. 15c;**  
**¼ lb. 35c; lb. \$1.25.**

Mr. E. J. T. Carvel, of Stevensville, Md., writes and says that  
our seeds are better than he has had from anybody. He also says  
that he is well pleased with the way we have been handling his  
orders.

## Celery

(German—Sellerie. French—Celeri)

One ounce will produce about 2,000 plants.  
We pay postage on pkts., ozs., ¼ lbs. and 1 lbs.



Golden Phenomenal.

**Culture**—Sow the  
last of March or early  
in April, in an open  
border, in rich, mel-  
low ground, in shal-  
low drills, watering  
freely in dry weather.  
By rolling or pressing  
in the seed the result  
will be more satisfac-  
tory than when cover-  
ed. Cut the tops off  
once or twice before  
planting out, to  
make them  
stocky. When the  
plants are five or  
six inches high  
transplant the  
dwarf varieties 3  
feet, and the  
taller sorts 4  
feet between the  
rows; plant 6  
inches apart in  
the rows. Culti-  
vate well, and  
when large  
enough, blanch  
by earthing up.

**GOLDEN PHENOMENAL**—A New Celery.

The general characteristics of this variety are those of the  
Golden Plume, but is decidedly taller and the stalks are much  
longer to the joint. The season for planting and maturity is  
the same as the Golden Plume. The plants are very heavy and  
compact and full hearted. The stems are exceptionally broad  
and thick, brittle and free from strings. It is of a very fine  
flavor and excellent quality throughout. **Pkts. 25c and 50c;**  
**½ oz. \$1.75; 1 oz. \$3.00.**

**M.-S. MONARCH**—This variety is a decided acquisition in  
green Celery, producing large stalks, and magnificent bright  
golden yellow heart. The stalks are very solid, brittle and of  
most delicious flavor, and entirely free from stringiness. It is a  
remarkably good keeper and presents a handsome appearance  
when ready for the table. Price same as above.

**M.-S. Golden Plume**—Resembles Golden Self Blanching,  
but is larger and ranker in growth, more plainly ribbed,  
blanches quicker, matures earlier, does not blight and is just  
as crisp and has the same flavor. **Pkt. 10c; ½ oz. 40c; 1 oz. 75c;**  
**¼ lb. \$2.75; 1 lb. \$10.00.**

**Easy Blanching**—For early use; preferred by many to all  
other sorts; as self-blanching as White Plume, and simply  
needs a slight earthing-up. **Pkt. 10c and 25c; oz. 40c; ¼ lb.**  
**\$1.25; lb. \$3.75.**

**French Golden Self-Blanching**—(Pure Stock). **Pkt. 10c; ½ oz.**  
**35c; oz. 60c; ¼ lb. \$1.75; lb. \$6.00.**

**White Plume**—Unsurpassed for Fall and early Winter use,  
requiring very little earthing-up to blanch it. **Pkt. 10c; oz. 25c;**  
**¼ lb. 75c; lb. \$2.75.**

**Giant Pascal**—The stalks are  
very large, thick, solid, crisp and  
of a rich nutty flavor, good keeper.  
**Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb.**  
**\$2.50.**

**Golden Heart**—Largely used, al-  
ways giving satisfaction; a showy  
sort; solid, of fine flavor and a good  
keeper. Price same as above.

**Winter Queen**—This variety  
grows a very thick, solid and heavy  
stalk, and has a large heart. It is  
a close, compact grower, and when  
blanched is a creamy-white color.  
Priced same as above.

**Pink Plume**—The stalks when  
blanched are a beautiful rose-pink.  
**Pkt. 10c; per ½ oz. 20c; oz. 35c.**

**CELERY PLANTS, SEE PAGE 5.**

**Giant Prague Celeriac**—This is  
unquestionably the largest and best  
Celeriac in existence, very large,  
almost globe-shaped, smooth, with  
only a few roots at the bottom.  
Flavor is excellent. **Pkt. 10c; oz.**  
**25c; ¼ lb. 75c; 1 lb. \$2.50.**



Giant Prague Celeriac.

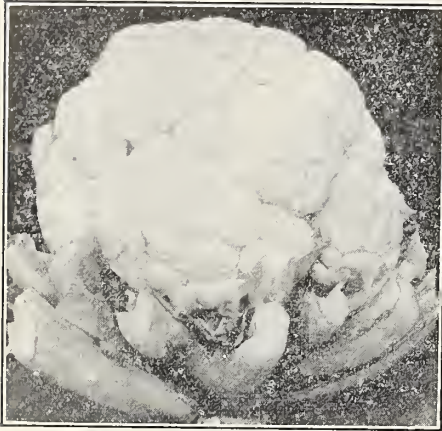


Pkts., ozs., ¼ lbs. and 1 lb. postpaid.

## Cauliflower

(German—  
Blumenkohl.  
French—  
Chou-Fleur)One ounce of seed  
for 1,500 plants.

**Culture** — When grown to perfection this is a most delicious vegetable, and well repays generous treatment in cultivation. With a deep rich soil, and an abundance of moisture, which in dry seasons must be applied artificially, Cauliflower can be grown well. The cultivation is similar to that of Cabbage. For early Fall crops, sow in May and transplant in June, in rows of four feet



M.-S. Early Snowball Cauliflower.

apart, setting the plants two feet apart in the row; water frequently if the ground is dry. Frequent hoeing and a liberal supply of rich, liquid manure, to keep up a continuous and rapid growth, will produce splendid heads of the most delicate flavor. It facilitates blanching if the leaves are gathered loosely together and tied over the top of the head to protect it from the sun. Cut before the flowers begin to open. Sow as late as June 20 for late crops, in beds or in hills, covering one-half inch deep.

**M.-S. EARLY SNOWBALL**—An extremely early dwarf variety, producing magnificent white heads of fine quality. Well adapted to hotbed culture and outdoor. Pkt. 10c, 25c and 50c; oz. \$1.50; ¼ lb. \$5.00.

**Dry Weather or Danish Giant**—The great drought-resisting variety; the heads are large, snow white and are protected with a liberal growth of foliage. This is the ideal variety to plant for summer use if you want to be sure of cauliflower at that season. Pkt. 10c, 25c, 50c; \$1.50 per oz.; ¼ lb. \$5.00.

**Select Early Dwarf Erfurt**—Of highest excellence, and for field culture not much surpassed by any type of newer name. Some so-called new varieties appear to be identical with Select Erfurt. Pkt. 10c, 25c and 50c; oz. \$1.50; ¼ lb. \$5.00.

**Veitch's Autumn Giant**—A distinct and valuable late variety; heads large and fine, well protected by foliage. Pkt. 10c; oz. 75c.

CAULIFLOWER PLANTS, PAGE 5.

## SWEET, or SUGAR CORN

(German—Zuckermals. French—Mais)

One quart will plant 200 hills: eight quarts in hills to acre.

Sugar Corn varies in weight according to variety. We have decided to list 44 lbs. as a bushel, except Adams and Red Cob or 90 Day, which weighs 56 lbs. to bushel.

**Culture**—The Sweet or Sugar varieties, being liable to rot in cold or wet ground, should not be planted before May, or until the ground has become warm; for a succession, continue planting every two weeks, until the middle of July, in rich, well-manured ground, in hills three feet apart each way, covering about half an inch, and thin out to three plants to a hill. Extra early varieties can be planted 18 inches in the row and 2½ feet between the rows. The field varieties should be planted four feet apart each way, leaving three plants to a hill.

**Extra Early Adams**—Height of stalk three to four feet, ears set within six inches of ground. Not a sugar corn, but a decided acquisition so early in the season. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck 75c; peck \$1.25; bus. \$4.50.

**Early Adams**—Similar to Extra Early Adams; larger, but not so early. Price same as above.

**Trucker's Favorite**—For a second early to follow Early Adams this is unquestionably one of the best; or for planting late to mature quickly it is equally valuable. It is a white corn, with good depth of grain, tender and sweet, and a most desirable size for roasting ears. Besides being a fine garden corn, it is a splendid field corn to follow potatoes and other early crops. The ears are large and well filled. A big advantage in growing Trucker's Favorite is that should you not use it all for roasting ears it will make large ears for making meal or feeding. It makes the largest ear of any early garden corn, averaging over 8 inches long. A fine combination of earliness and size; hardy and can be planted early. Price same as above.

**No. 1 Golden Bantam**—Extremely early. A true sugar corn. The grain when ripe is a bright golden-yellow, the flavor is exceptionally rich and sugary. Produces from two to three good ears to the stalk. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ pk. \$1.25; pk. \$2.00; bus. \$7.00.

**No. 2 Whipple's Early White**—This is an extra early variety with the deep grain of the Evergreen type. It matures in 65 days. The stalks are 5 to 6 feet high of vigorous growth; the ears are produced 1½ ft. from the ground, often two to the stalk and are 8 inches long, rather "blocky" in form, 16 to 18-rowed, filled to the end with rather narrow, deep wedge-shape grains of pearly whiteness and high sugar content. Price same as above.

**No. 3 M.-S. SNOW WHITE EVERGREEN SUGAR CORN**—It produces large uniform ears, which are well filled to the top with beautiful white kernels; it is 10 to 12 days earlier than Stowell's Evergreen. Splendid sort for market and home garden; keeps well after being cut. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck \$1.00; peck \$1.75; bus. \$6.50.

**No. 4 Country Gentleman or Shoe Peg**—A short-stalked, productive sort. Ears large for so small a stalk; grain narrow and very deep; excellent quality. Price same as above.

**No. 5 Stowell's Evergreen**—A favorite late corn for home use, market and canning. Aside from the size of the ears, which are large and well filled, its strong point is that it remains in the green state for a long time. Grains are deep and sugary. Price same as above.

**Howling Mob**—Another new early Sugar Corn, with fine, large ears, excellent for truckers or the home gardener.

**Bardens Wonder Bantam**—A yellow sugar corn with all that the name implies, making ears up to 9½ inches long; deliciously sweet and of unsurpassed flavor. Matures only about a week later than Golden Bantam. A strong grower and very productive. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.25; peck \$2.00; bus. \$7.50. See illustration, below.

**Sunshine**—A really choice extra-early yellow Sweet Corn, growing 4½ to 5½ feet tall, with many stalks carrying two ears. The ears are 7 inches long and 1½ inches thick at the butt end. The yellow broad kernels are exceedingly sweet. Price as above.

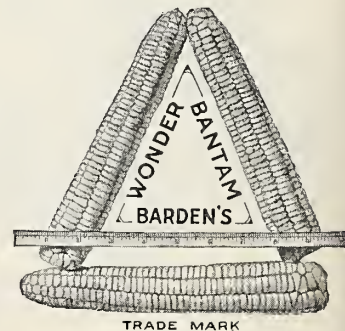
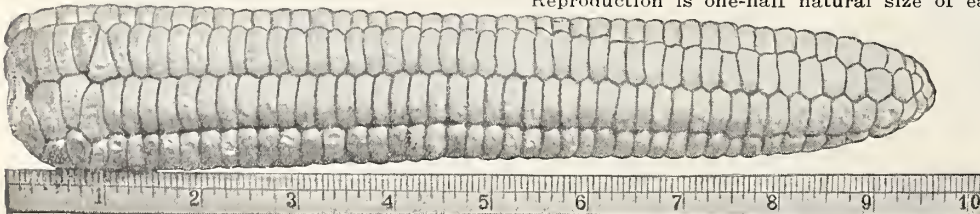
**Black Mexican**—An old favorite, being very tender and sweet. Price same as above.



Corn seed is quickly and easily disinfected against Corn root-rot by dusting with Semesan Jr. at the rate of 3 ounces to the bushel of seed.

**NOTICE:** For the convenience of our customers, we have marked five of the best varieties, as they mature in succession. No. 1 is the earliest and No. 5 the latest.

Reproduction is one-half natural size of ear.



TRADE MARK



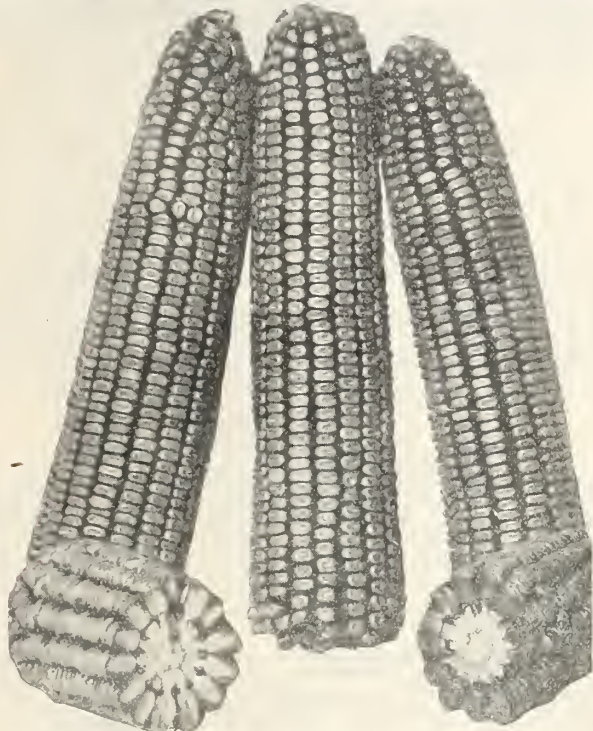
## FIELD CORN

8 Quarts to the Acre.  
Prices Subject to Change Without Notice.

**Insure Your Seed Corn Against Attacks of Crows and Pheasants by Using "CRO-TOX"—It Pays to Use the Best**

Try a small can of "Cro-Tox" and be convinced of its merit. It will pay for itself many times over. Enjoy the comfort of planting your corn with the assurance that it will not have to be replanted.

Large size can treats 2 bushels of corn (postpaid).....\$1.50  
Small size can treats 1 bushel of corn (postpaid).....\$1.00



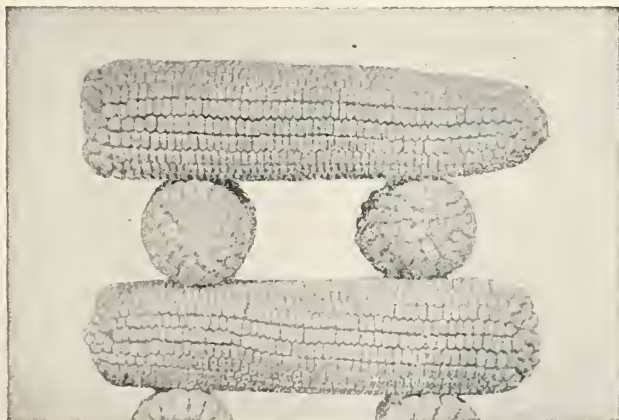
Maryland Yellow Dent.

Prices on Field Corn do not include postage. For 1 qt. add 8c, 2 qts. 10c, peck 21c, bushel 57c.

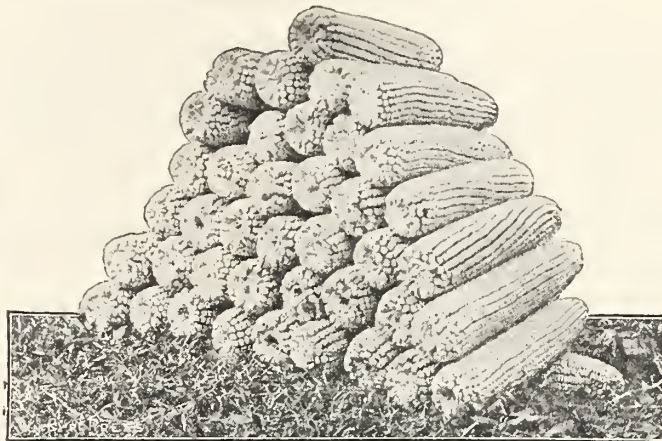
**Collier's Success**—The ears are of immense size, 12 to 14 inches long, 8 to 10 inches in circumference, carrying 20 to 24 uniform rows of large yellow kernels, well developed over tip and butt. It is a luxuriant grower, about 12 to 15 feet high. Matures in 100 days. Makes a splendid ensilage corn, making two ears on many stalks. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Yellow Leaming**—We have a very choice strain of this early, drought-resisting variety. It makes a fair-size ear, with deep, well-shaped grains, and will mature in 100 days. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.

**Golden Beauty**—Large, broad-grained, yellow corn. Ears are well filled out. A heavy yielder. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.



Collier's Success.



Boone County White.

**Maryland Yellow Dent**—Large ear; moderate size stalk; withstands drought well. Qt. 25c; ¼ pk. 40c; pk. \$1.00; bu. \$3.50.

**Boone County White**—Recommended by the Agricultural Experimental Stations. A fine, large deep-grained variety, originated by one of the best corn breeders. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Collier's Excelsior**—White corn, especially adapted for hominy corn on account of its flintiness. Great producer on poor soil. Qt. 25c; ¼ pk. 40c; peck \$1.00; bu. \$3.50.

**Early Eureka Ensilage Corn**—Very prolific, tall grower. Qt. 25c; ¼ pk. 40c; peck \$1.25; bu. \$4.50.

**Red Cob 90-Day Corn**—A valuable corn for the truck farmer, as it readily sells for sugar corn on account of its similarity, showing long blades on the ears; very delicious when young. Qt. 35c; ½ pk. 75c; pk. \$1.25; bus. \$4.50.

### Use Pyrox to Get Earlier and Better Germination

Here's the way to get an earlier stand of corn! Plant your seed at the usual time, but before planting... give the seed a coat of Pyrox. The results will astonish you! For Pyrox has certain ingredients that make the seed sprout quicker, and help to produce an earlier crop. Pyrox also increases the percentage of seed germination. Actual tests have shown 94 out of 100 seeds germinate when Pyrox is used. But when Pyrox is not used, the germination has been only 70 out of 100.

The cost of Pyrox is very slight! In fact, it costs less than 25 cents per acre to treat your corn! A very wise investment when you consider it means a better crop and no trouble from pests!

This spring, try the Pyrox treatment on your corn. You'll find it a big help in producing a better and earlier crop.

### Use Pyrox to Protect Corn Seed from Pests

Pyrox has a very nasty taste. Crows and other pests hate it. That's why they stay away from the hills where Pyrox has been used.

"The crows that fly this way," says J. L. T. Shaw of Bear Hill Farm, "have no use for corn that has been coated with Pyrox. We have found it a safe protection for the seed from the birds, and also from the destructive worms in the soil. It is applied easily, the corn works perfectly in the planter, and the Pyrox seems to help along germination."

Mr. R. J. Fiske, of Lunenburg, conducted an experiment to determine the value of treating seed corn with Pyrox. He writes as follows:

"The corn which I treated with Pyrox this season had nearly a perfect stand, 98 percent to be exact, and as far as I could observe no depredations by crows. The untreated corn had only about a 10 per cent stand, and of the 90 per cent which did not grow I should say that about 80 per cent was due to crow injury, and about 10 per cent to lack of germination."

The crow is a wise bird... it takes more than a scarecrow to keep him away. Use Pyrox! Try it on your seed this year... then watch the results.

**JAPANESE HULLESS POP CORN**—The best pop corn known. Pops large, flaky and white as snow. Lb. 15c.

**Wire Corn Poppers**, 25c, postpaid 35c.

If Field Seeds are wanted by parcel post in first and second zone, include 7c for first lb. and 1c for each lb. over, for instance, for 4 lbs. send 10c.



## Cucumber

(German—Gurke. French—Concombre)

One ounce will plant fifty hills; two pounds, one acre.

**Culture**—For very early Cucumbers, sow the first of April in a hotbed, upon pieces of sod or in small pots, so that they can be readily transplanted to the open ground (in rich soil) when danger of frost is over. For general crop plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill. They succeed best in a warm, moist, rich, loamy soil. For succession sow until the middle of August.

**English Forcing Telegraph Cucumber**—These are ideal for growing outdoors as well as under glass. They produce enormous fruits, generally 18 to 24 inches long and 3 inches in diameter. They have a delicate flavor and possess very few seeds; for slicing, no other sorts can approach them. Pkt. of 12 seeds, 25c; 100 seeds, \$1.25.

**Boston Pickle**—A short fairly smooth, symmetrical cucumber and one of the most popular in use. It is extremely early and productive. Size 6 x 2½ ins. Edible in 53 days. Weight 1½ lbs. Pkg. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.



Early Fortune Cucumbers.

**Early Fortune**—A great favorite with our Anne Arundel County farmers for its early maturity, productiveness, uniformity in large size, dark green color. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Clark's Special**—An excellent shipping variety of uniform size and dark green color. Price same as above.

**New Klondike**—One of the best for shippers. Grows vigorous vines, fruits early and abundantly. Dark green in color, large size, and of fine flavor. Pkt. 10c; oz. 15c; ½ lb. 35c; 1 lb. \$1.25.

**Improved Early White Spine**—Old standard favorite. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Arlington White Spine**—Another standard sort. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Improved Long Green**—Long and crisp; a popular and reliable variety for pickles. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25.

**Longfellow**—(New.) An excellent long, slender, dark green variety equally desirable for greenhouse forcing or outdoor culture. An ideal type for the private garden or as a "straight pack" variety for shipment to market. 12 to 14 inches long by 2½ inches in diameter. W. S. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

**Japanese Climbing**—Distinct from other varieties, being a real climber. Very prolific of fruit. A valuable, interesting novelty.

Longfellow Cucumber.

Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

**Jersey Pickle**—Productive and said to "green" better than any other variety to "hold color." Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Small Gherkin, or Burr**—Used only for pickling while young and tender. Pkt. 10c; oz. 25c.

**Lemon Cucumber**—A very productive variety with round or slightly oval fruits of light creamy yellow color; of distinctive flavor and desirable quality either for slicing or pickling. The fruits are ready for slicing when just starting to turn yellow. For pickling they may be used either green or ripe. Pkt. 10c.

M.-S.  
Cool and  
Crisp.

**M.-S. COOL AND CRISP**—Ideal for home and market gardening. Extra early and very prolific, long straight, slender and very dark green; good either for pickling or slicing. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

## Cress : Chervil

(German—Kresse) (German—Kerbel)

**Water Cress**—Sow early in spring near pond or running water; when established will last for years. Pkt. 10c; oz. 50c.

**Land Cress or Pepper Grass**—Sow in early spring in rows two feet apart, and repeat often as it runs to seed very quickly. Pkt. 10c; oz. 15c; ¼ lb. 30c.

**Chervil**—Sow like the above, used as a salad seasoner. Pkt. 10c; oz. 25c.

## Dandelion

(French—Pissenlit. German—Löwenzahn.)

One ounce to 100 feet of row.

**Culture**—Plants usually come up small and feebly. Sow seed in good clean loam, in drills 1 foot apart, and thin or transplant to 10 or 12 inches apart in the rows. May be blanched by covering with leaves or other loose litter, or by placing a large inverted flower pot over each plant.

**Improved Thick-Leaved**—An improved variety. Pkt. 20c; oz. \$1.00; ¼ lb. \$3.00.

**Common**—Yields an abundant supply of large succulent leaves. Pkt. 10c; oz. 50c; ¼ lb. \$1.50.

## Eggplant

(German—Eierpflanze. French—Aubergine)

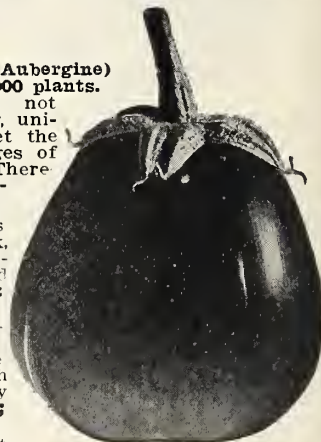
One ounce will produce about 1,000 plants.

**Culture**—Eggplant seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are sometimes necessary.

**M.-S. Ebony King**—As its name implies it is almost black, large size, perfect shape, thornless, great drought resister and splendid bearer. Pkt. 10c; ¼ oz. 25c; 1 oz. 50c; ¼ lb. \$1.75.

**New York Improved Purple**—The leading market variety; of large size, skin deep purple smooth, free of thorns; flesh white, of excellent quality; very productive. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.

**Black Beauty**—The earliest large variety; color, rich, dark purple. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; 1 lb. \$5.00.



M.-S. Ebony King.

EGGPLANT PLANTS, SEE PAGE 5.

## Whitloof Chicory, or French Endive

(German—Succory. French—Chicoree.)

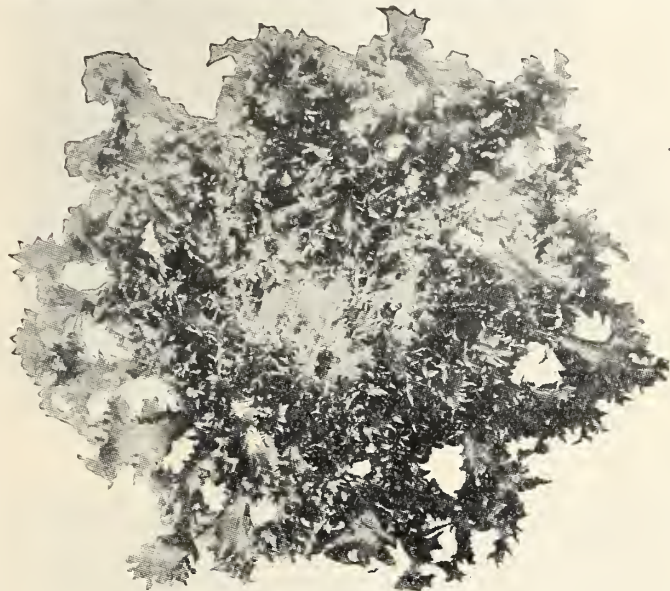
**Whitloof Chicory, or French Endive**—Known in restaurants as French Endive. We want to get our customers interested in this delicious vegetable, and feel confident that after it has once been tried it will become quite as popular as Swiss Chard, which was only planted very sparingly a few years ago. Every garden should have a row of Whitloof Chicory and we feel sure that every amateur or experienced gardener will be pleased with the results. Whitloof is eaten raw or as a salad, and is also sometimes cooked like ordinary Endive. Pkt. 10c; oz. 25c; ¼ lb. 50c; 1 lb. \$1.50.

**Large Rooted Chicory**—The roots are dried and ground and used for flavoring or to substitute coffee. It can also be served like salsify. Pkt. 10c; oz. 25c; ¼ lb. 50c; 1 lb. \$1.50.



## Endive (German—Endivie. French—Endive)

**Culture**—Sow in June, July and August; cover lightly; when up thin out to eight inches apart, and water well afterwards, if dry. When the leaves are 6 to 8 inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry or they will rot. At the approach of Winter, take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air.



Green Curled Endive.

**Green Curled**—Tender and crisp. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**White Curled**—Self-blanching. Very tender when young; blanches readily. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**Broad Leaved Batavian (Escarrole)**—This variety is chiefly used in soups and stews; it requires to be tied up for blanching. Pkt. 10c; 1 oz. 15c; ¼ lb. 40c; lb. 1.25.

## Herbs (German—Krauter. French—Herbes)

**Culture**—Herbs delight in a rich, mellow soil. Sow seeds early in Spring in shallow drills, one foot apart; when up a few inches thin out to proper distances, or transplant. They should be cut on a dry day just before they come into full blossom, tied in bunches and hung up or spread thinly where they can dry quickly.

**Anise**—Pkt. 10c.  
**Balm**—Pkt. 10c.  
**Catnip**—Pkt. 10c.  
**Pennyroyal**—Pkt. 10c.  
**Peppermint for Flavoring**—Pkt. 10c.

**Tansy**—Pkt. 10c.  
**Borage**—Pkt. 10c.  
**Caraway**—Seeds used to flavor bread. Pkt. 10c; oz. 25c.  
**Coriander**—Pkt. 10c.  
**Dill**—The seeds are used as a condiment and for pickling. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 75c.

**Fennel, Sweet**—A hardy perennial, indigenous to Southern Europe. The leaves are extensively used in sauces for flavoring. Sometimes eaten raw. Pkt. 10c; oz. 25c; ¼ lb. 75c.

**Horehound**—For medicinal purposes and flavoring. Pkt. 10c.  
**Lavender**—For flavoring and perfumery. Pkt. 10c.

**Martynia**—Produces long green pods which are used for pickling. Pkt. 10c; ½ oz. 25c.

**Rosemary**—Leaves used for seasoning. Pkt. 10c.

**Rue**—Pkt. 10c.

**Sage**—For seasoning and dressing. Pkt. 10c; oz. 40c.

**Summer Savory**—Used for flavoring. Pkt. 10c; oz. 25c.

**Sweet Basil**—For flavoring soups. Pkt. 10c; oz. 25c.

**Sweet Marjoram**—Leaves and ends of shoots used for seasoning. Pkt. 10c; oz. 40c.

**Saffron**—For medicinal and coloring purposes. Pkt. 10c.

**Thyme (Broad Leaf)**—For seasoning, also for making tea for nervous headache. Pkt. 10c; oz. 50c.

**Wormwood**—Pkt. 10c.

## Finocchio, or Florence Fennel

A delicious vegetable which should be more largely grown. It is extensively used in Italy as a salad, but is particularly palatable when served boiled, with a cream dressing. When the enlargement of leaf stalk, at base of stem, is about the size of a hens egg it should be earthed up so as to cover half of it, and in about ten days cutting for use may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery, but it has a sweeter taste and delicate odor. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

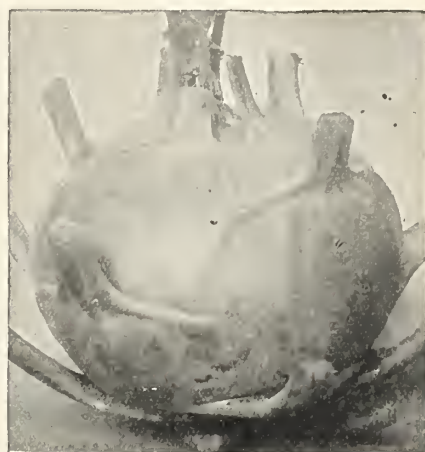
## Kohl-Rabi

One ounce will sow 150 feet of drill.

This is a favorite vegetable in Europe, where it is extensively grown for table use. The bulb is formed above ground, and, if used when young and tender, makes a most delicate dish for the table.

**Earliest White Vienna**—Greenish white outside, with clear white flesh within. Smooth, short leaf. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.75.

**Earliest Purple Vienna**—Same in every respect as the Earliest White Vienna, except in the outside color. Pkt. 10c; oz. 25c; ¼ lb. 75c.



Earliest White Vienna Kohl-Rabi.

## Kale, or Borecole (German—Krauskohl. French—Chou Vert)

One ounce sows a drill of about 100 feet. 2 to 3 lbs. to the acre.

**Culture**—Sow from May to June, and cultivate same as Cabbage. For early Spring use, sow in September, and protect during Winter. The Kales are more hearty than Cabbage, and make excellent greens for Spring and Winter use, and are improved by frost.

**BORECOLE PLANTS, SEE PAGE 5.**

**M.-S. EMERALD ISLE KALE**—This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00.

**Dwarf German Kale**—Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 60c.

**Tall Scotch**—Best for Summer. Very spreading, nicely curled and hardy; frost improves it. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. \$1.

**New Imperial Extra Curled Long Standing**—The leaves are very crimp and of a dark green color. Pkt. 10c; oz. 15c; ¼ lb. 30c; 1 lb. \$1.00.

**Dwarf Green Curled Scotch, or Norfolk**—One of the most popular shipping sorts; very largely used in Norfolk trucking district. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 85c.

**Sea Kale**—Not a true Kale (a member of the Cabbage family) but a perennial which should be grown and cultivated like rhubarb. The edible parts are the young, strong shoots that come up in early spring. When blanched, they are cooked and served like asparagus, or the leaves may be used as greens. Pkt. 10c; oz. 30c.



Borecole—Hardy Winter.

**Borecole, Hardy Winter**—This variety is grown and treated like cabbage. The plant attains a height of 18 inches, with an abundance of beautiful light green leaves which are densely curled and crimped. Besides being very hardy it possesses the advantage of all other varieties in forcing a second crop of moss-curved leaves as soon as the first ones are gone. This new growth is of the finest quality, and is ready for market during the Winter and early Spring months, when it demands fancy prices. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

**Spring Kale**—A hardy, quick-growing, smooth-leaved variety. Sow at intervals of ten days, so as always to have it young and tender. Pkt. 10c; ¼ lb. 15c; 1 lb. 35c.



We pay postage on pkts., ozs.,  
¼ lbs. and 1 lbs.

## M.-S. CHOICE STRAINS OF LETTUCE

French—Laitue.  
(German—Salat.)

Two ounces of seed to 100 yards of row; one ounce for 2000 plants

**Culture**—Lettuce is now sown during most all seasons of the year. For outdoor use the seed can be sown in well-manured hotbeds in February and March. Transplant there or outdoors when the weather will permit, in rows about 12 inches apart, 10 inches apart in the row. If the salad is not to head, sow thickly and cut as desired. For best results it is well to sow only the varieties best suited to the different seasons and conditions. For winter use sow the seed in September in hotbeds and follow it with other sowings for succession.



Big Boston Lettuce

**Big Boston**—Desirable for forcing and Spring and Fall outdoor planting. Always makes large, buttery heads with thoroughly blanched hearts. The heads are extra large, firm and solid, brittle and buttery; the hearts are crisp and beautifully blanched. Pkt. 10c; oz. 20c; ¼ lb. 40c; 1 lb. \$1.25.

**Los Angeles, New York, or Wonderful**—This very large heading lettuce is desirable not only as a garden variety for summer use but is much used as a fall and winter market sort. It is the variety largely grown in California and shipped to eastern markets under the trade name of Iceberg. The plant is very large but compact and tight heading; outer leaves attractive deep green, broad, frilled at edges. The inner leaves form a large head, very sweet and tender when in condition for use. Cultivate same as Big Boston. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**May King**—This valuable Lettuce is, without any question, one of the best Lettuces on the list for early Spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round,

compact heads being so solid that they carry extremely well. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Romain White Paris Cos**—Has long, narrow, upright leaves; does not head, but when tied up blanches very nicely. Pkt. 10c; oz. 20c; ¼ lb. 60c; 1 lb. \$1.75.

**Best of All**—A great drought and heat resister; forms large compact heads of light green leaves and yellow heart. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Grand Rapids**—Excellent for forcing, fine quality, large, loose, yellowish-green head, stands well. Pkt. 10c; oz. 15c; ¼ lb. 60c; 1 lb. \$1.50.

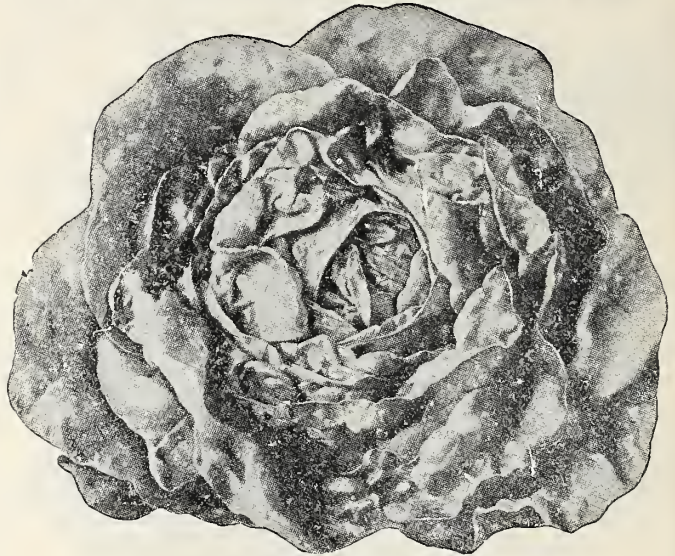
**California Cream Butter**—A good Summer sort, of reliable heading quality. Yellowish-green, slightly

**Romain White Cos Lettuce** marked with brown specks. This is a variety growing in favor. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Boston Market, or White-Seeded Tennisball**—Early and compact, quite desirable, good forcer. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Black Seeded Tennis Ball**—Similar to above. Price same.

**Way-a-Head**—Similar to the above, but suitable for all-season in or out-door planting. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$1.75.



M.-S. Belvedere.

**M.-S. BELVEDERE LETTUCE**—In 1912 we introduced this grand Lettuce after having it in our trial grounds for two seasons, and we were amply repaid by the success which our Truck Farmer customers had with it. The **M.-S. Belvedere** is extremely slow in running to seed; it is therefore the ideal Lettuce to plant in the Spring, as it withstands the Summer heat better than any variety we have known so far. It is all green, no red edges, is tender and crisp and has a fine yellow heart. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**WHITE BOSTON SPECIAL**—A new, very high-class strain of the pale green-leaved Big Boston type without the red-tinged leaf-edge. A surely dependable sort for growing in coldframes and for first field-planting in the early spring. Lettuce from this strain is not quite as large-framed but it cuts nearly as heavy in number of crates as the regular Big Boston, and it sells quicker and at higher prices. Many fields gave a 90 per cent first cutting for early market at top prices. The heads show comparative freedom from tip-burn. These features will soon repay the high seed-cost. Price same as above.

**Oak Leaf**—Quite popular. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.



All Season M.-S. Strain.

**M.-S. STRAIN ALL-SEASON**—A cabbage lettuce of sterling merit, making larger and more closely folded heads than any other known variety. The outer leaves are a bright, soft green, the inner ones rich golden yellow. The solid heads measure from eight to ten inches across. Black seed. Pkt. 10c; oz. 15c; ¼ lb. 50c; 1 lb. \$1.50.

**Black Seeded Simpson Lettuce**—Fine, large, loose heads, early, finely fringed and curled; very popular for family garden and forcing. Pkt. 10c; oz. 20c; ¼ lb. 50c; 1 lb. \$1.50.

LETTUCE PLANTS POPULAR VARIETIES, SEE PAGE 5.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

## Leek

(German—Lauch. French—Poireau)

One ounce to 150 feet of row.

**Culture**—Sow the seed and care for the young plants same as for Onions, but they need a little more room to develop fully. When the young plants are about the size of a goose quill, transplant into a prepared bed in rows one foot apart and four to five inches in the rows. Set the roots deep and draw the earth to them when cultivating, so that they may be well blanched by the time they are fit for use.

**Giant Carentan**—Produces a large, thick stem and of mild flavor. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

**American or Flag**—One of the hardiest and best for Winter use. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.



Flag Leek

## Pure Culture, Spore Process Mushroom Spawn

The best procurable; making cream colored mushrooms. 1 brick 25c (post-

paid 32c); 5 bricks, \$1.00 (postpaid, \$1.15); 25 bricks, \$4.50 (postpaid, \$4.85); 50 bricks, \$8.50 (postpaid, \$9.10); full case, 100 bricks, \$16.00. Express or freight.

Leaflet on Growing Mushrooms free.

**Mushroom, or Hotbed Thermometers**—Wood frame, heavy brass point. Price, \$3.00. Parcel post weight, 2 lbs.



## Mustard

(German—Senf. French—Moutarde)  
One ounce will sow 100 feet of drill.

**Culture**—A small, pungent salad, used like cress; the seed is also used for flavoring pickles, pepper sauce, etc. For salads sow thickly in shallow drills 6 inches apart. Since plants go to seed quickly, short rows should be sown frequently, rather than long ones at one time. Successive sowings can be made every week or two. To grow seed, sow in April, in rows 1 foot apart, and thin out to 3 inches apart when 2 inches high.

**Chinese**—Large, light green leaves, frilled at edge. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Southern Giant Curled**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**White English**—Used mostly for the white seeds. Price same as above.

## Okra, or Gumbo

(German—Safran)

Four ounces to 40 feet of drill.

**Culture**—Sow the seed thickly in rich ground about the middle of May, or when the ground has become warm, in drills three feet apart, one inch deep; thin to 10 inches apart in drills. Grown for its green pods, which are used in soups, stews, etc., to which they impart a rich flavor, and are considered nutritious.

**White Velvet, or Lady Finger**—Bears round, white, smooth pods, unlike other varieties, which are ridged or square edge. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**Improved Dwarf Green Prolific**—Of dwarf growth, but immensely productive and very early. Short, thick, green pods. Home grown seeds of superior quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**Perkins' Mammoth Podded**—The pods are of an intense green color, of unusual length—eight or nine inches—and do not get hard, as is the case with other okras. Very superior for canning. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 60c.



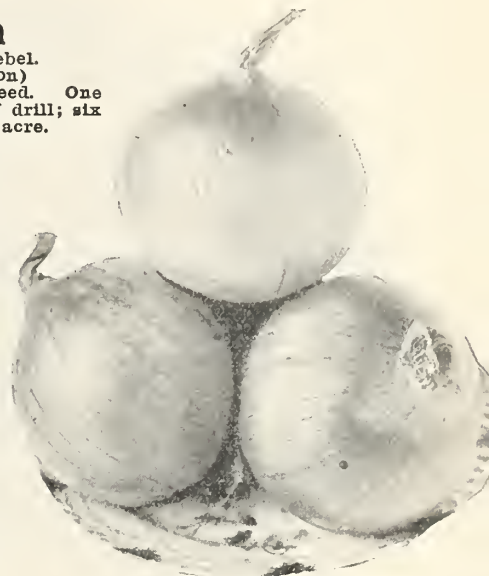
Improved Dwarf  
Green Prolific Okra

## Onion

(German—Zwiebel.  
French—Eignon)

American Grown Seed. One ounce for 100 feet of drill; six pounds for one acre.

**Culture**—For sets sow the seeds early as possible in the Spring, very thickly in drills. As soon as the tops dry off in the Summer remove them to a dry, airy place, and early in the following Spring replant by placing the sets in shallow drills 12 inches apart and about four inches apart in the drills; the Onions of this process obtained are of large size early in the season also be grown to full size during the first season by sowing thinly in drills one foot apart and about one-quarter inch



Mammoth Prizetaker.

deep in March or in early April, in strong land, well manured, and thinning them out to stand 3 or 4 inches apart in the drills.

**Prizetaker**—This is the large, pale yellow onion that is offered for sale in fruit stores and markets in the Fall. It grows to a very large size; flesh white, of mild and delicate flavor. The large onions are raised the first year from seed, and with ordinary culture produce enormous crops. The onions sometimes go over three pounds each in weight where good soil and culture is given them. Our seed is pure and genuine. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.

**Yellow Globe Danvers**—One of the most extensively used yellow onions. Price same as above.

**Large Red Wethersfield**—Grows to full size the first season from seed; almost round, large size, deep red color, and keeps well. Price same as above.

**Australian Brown**—A brown skinned onion which grows to a good size the first season. Price same as above.

**White Silverskin**—Ripens early; of large size, mild in flavor and excellent for Winter use; much esteemed for pickling when small. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**Southport White Globe**—The earliest of the Southport Globes, perfecting a very handsome product within 90 days from sowing seeds. The bulbs are pure white and of a very mild flavor, also equally as good for keeping as the Yellow Globe. The flesh is remarkably firm and solid. It is an enormous yielder, and as it is very attractive, always sells at high prices. Price same as above. **ONION PLANTS, SEE PAGE 5.**

**White Bermuda**—They are of a mild and delicate flavor, and keep longer than any foreign variety. They will produce full-grown onions from seed the same season. Pkt. 10c; oz. 50c.

**Chives Seed**—Pkt. 10c; oz. 75c.

## Onion Sets

One quart will plant a row about 50 feet; 10 to 15 bus. to 1 acre.

Used for an early crop of onions, and should be planted just as soon as the ground can be worked. Press the bulb lightly in the ground and do not cover; in rows 12 inches apart, 2 inches apart in the row; so that all the development goes in the onion; on signs of their going to seed, bend the top over, but do not break it off. They can be harvested in this locality for Winter storage as early as July 10th. The advantage in planting sets lies in the fact that the young onion is ready in five weeks from time of planting, while those grown from seed cannot be used until well in the Autumn. Shipped on local orders about March 1st, unless otherwise requested.

For parcel post add to all pts. 7c, qts. 8c,  $\frac{1}{2}$  pecks 10c, pecks 15c, bus. 40c.

**Yellow Danvers**—Pt. 15c; qt. 25c;  $\frac{1}{2}$  peck 65c; pk. \$1.00; bu. of 32 lbs. \$3.00.

**Large Red Wethersfield**—Price same as above.

**White Silver Skin**—Pt. 15c; qt. 25c;  $\frac{1}{2}$  peck 75c; pk. \$1.25; bu. of 32 lbs. \$3.50.

**Japanese, or Ebenezer Onion Sets**. This variety is globe-shaped, about the color of a yellow Danver, is very solid and has a mild flavor. It will keep longer than any other variety. Price same as above.

**Multiplier Onion Sets**, yellow and white and Egyptian Top Onion, Brown, are furnished in Sept. and Oct. Market price.

Price on Onion Sets subject to change.

Prices on larger quantities furnished on request.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.**MUSKMELONS or CANTALOUPE**

(German—Melone. French—Cantaloup). One ounce will plant about 50 hills; two to three pounds in hills to acre.

**Bottomly Cantaloupe.**

**Culture**—Thrives best in light, rich soil. Plant early in May, in hills six feet apart. Manure in hill and sow seed freely. After danger from bugs is past thin to three plants per hill. When one foot long, pinching off tips makes vines branching and strong, and fruit will mature earlier. Water freely and feed liquid manure occasionally. For early use, sow in hotbed, on piece of sod.

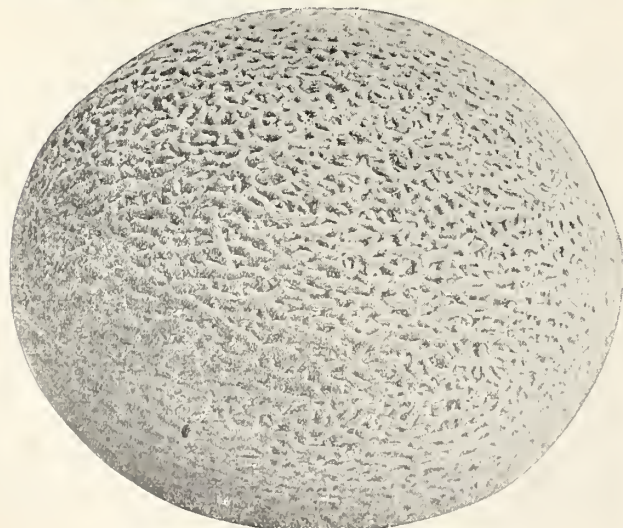
**LONG JOHN**—This is a product of Anne Arundel County which is famous for its fine Cantaloupes. It averages 8 to 10 inches, some specimens growing a foot long, deeply netted and ribbed, green-fleshed, thickly meated and deliciously flavored. Main crop variety. Seed scarce. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; 1 lb. \$2.50.

**SALMON-TINT No. 10-25**—This is an early melon of the solid netted type that is so desirable. Very small seed cavity, with thick, luscious flesh of genuine salmon-tint shading to green near the rind. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.

**Bottomly Cantaloupe**—True Anne Arundel strain. Great favorite with the Anne Arundel County truckers and private gardeners. Medium size, oblong, deeply netted, green flesh and delicious flavor. Our illustration shows this splendid variety so true to nature that there is no further need of describing it. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

**M.-S. GOLDEN WONDER CANTALOUPE**—Most delicious flavored golden yellow meat, which is thick and solid. Medium size, oval in shape, very vigorous and productive vines, which are great drought and blight resisters. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

We do appreciate hearing from pleased customers.

**M.-S. Delicious Gold-Lined Rocky Ford.**

**Rocky Ford**—We have a very fine stock of this popular cantaloupe. Small, oval, of excellent quality and a good shipper; early; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**M.-S. DELICIOUS GOLD-LINED ROCKY FORD CANTALOUPE**—Its shape is ideal, very slightly oval, no ribs, and is heavily netted over the entire melon. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.25.

**Early Netted Gem**—One of the best of small melons, and very popular. Prolific and of excellent quality. Very early. A great favorite. Green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

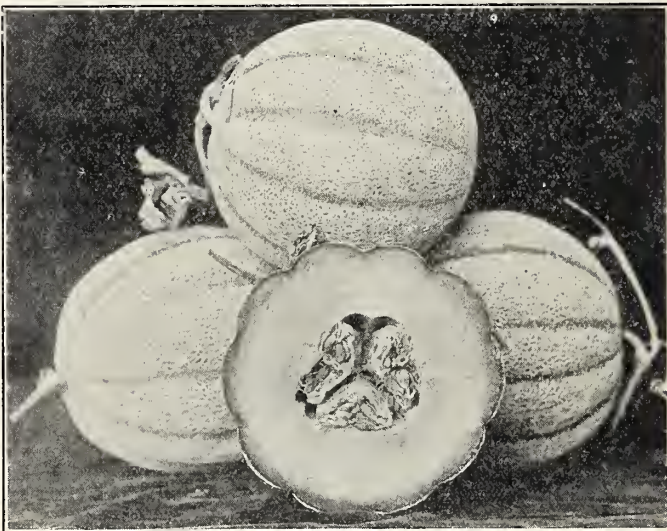
**Emerald Gem**—Small, green skin, and delicious yellow flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Acme, or Baltimore Nutmeg**—A great favorite for retail market and for shipping. Large, oval, deeply netted, solid and of fine quality; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.

**Jenny Lind**—Very early, small, round, netted and of fine quality; green fleshed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. \$1.00.

**Miller's Cream, or Osage**—Melons are large and round, with light green, netted skin, and thick, sweet, salmon-colored flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Knight Cantaloupe**—True Anne Arundel County grown strain. The great favorite of the Baltimore market, of good size, deeply netted, green flesh, and delicious flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.75.

**Rocky Ford Cantaloupe.**

**Banana**—This melon surpasses all others in its delicious fragrance. The flesh (the melon being nearly solid) is of a rich salmon. The quality is first rate when the melon is thoroughly ripe. It grows from 20 to 28 inches in length and is very prolific. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

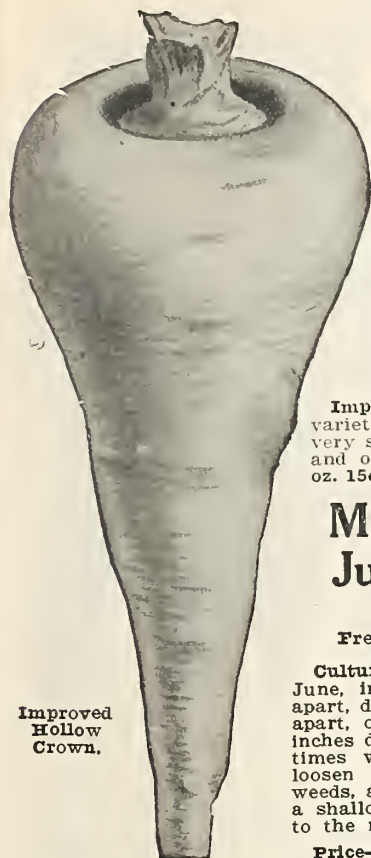
**Montreal Market**—The large fruits are nearly round in form, slightly flattened at ends, with very large, broad, heavy ribs. Dark green skin, thickly covered with heavy netting. The flesh is two inches thick, light green, melting, and of delicious flavor. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**New Honey Dew**—Produces a melon with smooth, almost white rind, measuring about six inches in diameter by seven to eight inches long. The green flesh is thick and is of a peculiar sweet flavor, resembling a well-ripened banana. To have the melons in the best condition we suggest gathering (or picking) as soon as they slip from the vine and store in a cool place for two or three days before serving; they apparently are at their best when a trifle over-ripe. While we cannot yet recommend Honey Dew for general culture, we offer selected seed at: Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**HONEY DEW**—Pink-fleshed, same as the above with the exception that the flesh is of a beautiful pink tint and highly flavored. Price same as green-fleshed.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.



## Parsnip

(German—Pastinake.  
French—Pannais.)

One ounce for 200 feet of  
drill; five to six pounds  
for an acre.

**Culture**—Sow as early in  
the Spring as the weather  
will permit, in drills 16  
inches apart and one-half  
inch deep, in a rich, deep  
soil; thin out to six inches  
apart in the rows. The  
quality of the roots is im-  
proved by leaving them in  
the ground over Winter for  
Spring use.

**Improved Hollow Crown**—The best  
variety. A great cropper, roots long,  
very smooth, white, tender, sugary,  
and of excellent flavor. Pkt. 10c;  
oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 80c.

## M.-S. Improved Jumbo Peanuts

(German—Erdnusse.  
French—Pistache de terre.)

**Culture**—Plant in May or early  
June, in rows about  $2\frac{1}{2}$  to 3 feet  
apart, dropping the nuts 8 to 10 ins.  
apart, one in a hill. Cover 1 or 2  
inches deep. Cultivate three or four  
times with a cultivator, so as to  
loosen the earth and keep down  
weeds, and at the last working, with  
a shallow turn-plow throw the dirt  
to the nuts.

**Price**— $\frac{1}{4}$  lb. 15c;  $\frac{1}{2}$  lb. 20c; 1b.  
30c. Special price on large quantity.

## Pepper

(German—Pfeffer. French—Poivre)  
One ounce will produce 1,000 plants.

**Culture**—Sow in hotbeds in March or April, or on a warm,  
sheltered border in May; when the season is favorable transplant  
in rows two feet apart and 18 inches in row, in good, rich ground.

**CALIFORNIA WONDER PEPPER**—Introduced in 1925. This  
pepper while similar both in size and shape to the Chinese Giant,  
is a much heavier and thicker meated pepper, the meat being  
about three times as thick as the Chinese Giant. The flavor is  
sweet, excellent and the keeping quality could not be better. It  
will outkeep a Chinese Giant Pepper by many days. A medium  
size pepper will average  $\frac{1}{2}$  lb. or better in weight when ready  
for marketing. It is an excellent shipper, uniform in shape  
and size. Pkt. 10c;  $\frac{1}{2}$  oz. 40c; 1 oz. 75c; 2 ozs. \$1.25;  $\frac{1}{4}$  lb. \$2;  
1 lb. \$7.50.

### PEPPER PLANTS LISTED ON PAGE 5.

**M.-S. Everbearing Sweet Pepper**—Early, large productive  
and of finest quality. The flesh is so thick and the meat so  
tender, that it can be fried like meat; it is so sweet that it may  
be eaten like an apple. Pkt. 10c and 25c;  $\frac{1}{2}$  oz. 35c; 1 oz. 65c;  
 $\frac{1}{4}$  lb. \$2.25; 1 lb. \$8.00.

**Large Bell or Bull Nose**—Large, early variety; hot flavor, thick  
and fleshy. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1b. \$3.25.

**Chinese Giant**—This is a real monster pepper, perfectly sweet,  
the fruit is green turning to bright scarlet, matures very late,  
a very shy seeder. Fine for stuffed mangoes. Pkt. 10c; oz. 50c;  
 $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.50.

**Perfection Pimento Pepper**—Very fleshy and sweet. Pkt. 10c;  
 $\frac{1}{2}$  oz. 30c; 1 oz. 50c.

**Long Red Cayenne**—Long, slim, and very pungent. Pkt. 10c;  
 $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**Mammoth Ruby King**—Good for Mangoes or pickling, very  
sweet. Large, quite productive. Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  
 $\frac{1}{4}$  lb. \$1.00; 1b. \$3.50.

**Small Chili**—Small, conical pods. Very hot. Pkt. 10c;  $\frac{1}{2}$  oz.  
30c; oz. 50c.

**Red Cherry**—A small round pepper, very hot. Pkt. 10c;  
 $\frac{1}{2}$  oz. 40c; oz. 75c.

**Neapolitan**—Grows a long shape and somewhat narrow; it  
stands upright on the bushes. Sweet, bright red; and very early.  
Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.25.

**Golden Dawn**—A large yellow variety, very sweet. Pkt. 10c;  
 $\frac{1}{2}$  oz. 35c; oz. 60c.



California Wonder Pepper.

## Parsley

(German—Petersilie. French—Persil)  
One ounce to 150 feet of drill.

**Culture**—Parsley requires rich, mellow soil. The seed is even  
slower than Parsnip in germinating, and should be sown as early  
as possible in the Spring, in drills one foot apart, and when the  
plants are well up thin to one foot in the row. When the plants  
are about three inches high, cut off the leaves, the plant will  
start a new growth.



M.-S. Green Curled Beauty Parsley.

**M.-S. GREEN CURLED BEAUTY PARSLEY**—Very hand-  
some, dark green, beautifully curled. Dwarf habit, hardy and  
productive; very slow going to seed; it can be cut the year  
around. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c; 1b. \$1.50.

**Champion Moss Curled**—A distinct variety of unequalled merit,  
beautifully crimped and curled. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c;  
1b. \$1.25.

**Green Mountain Parsley**—Beautifully crimped and curled;  
perfectly hardy and vigorous grower. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb.  
40c; 1b. \$1.25.

**Hamburg, or Rooted**—Edible roots. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb.  
40c; 1b. \$1.25.

WE DO APPRECIATE HEARING FROM PLEASED  
CUSTOMERS.

**SEMESAN PRODUCES FINER VEGETABLES**—Plant and  
seed diseases are responsible for poor yields and the un-  
blemished quality of many popular vegetables. The best means  
of eliminating such wastes, consists of preventing the cause  
at its source by the disinfection of vegetable seeds with  
Semesan.



# M.-S. SUPERIOR HAND PICKED PEAS

(German—Erbsen. French—Pois)

Prices on Larger Quantities on Application.

Sow one quart of seed to 100 feet of row; and one-half to two bushels to the acre in drills.

Prices on all Pea Seeds are subject to market changes.

Packets of all varieties of Peas, 10c.

**Culture**—Peas succeed best in light, dry, loamy soil. Early and dwarf sorts require richer soil than the late varieties. If manure is used, let it be old and well-rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in the Spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. Sow in single rows, dwarf sorts three feet apart and tall sorts four feet apart, or in double drills, six to eight inches apart, one inch apart in the drill, and not less than four inches deep, for late sorts five to six inches deep. Deep planting prevents mildew.

**IF TO BE SENT BY PARCEL POST**, add to ½ pt. 7c; pt. 8c; qt. 9c; ½ peck 15c; peck 22c; bus. 67c.

## Extra Early Varieties

(Weight 60 lbs. per bushel.)

**Early Bird**—As early as Alaska and First and Best. As large as Thos. Laxton or Gradus. Dwarf, vigorous vines about 2 feet high, covered with immense well-filled pods. Perfectly hardy. Can be planted as early as any variety. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; peck \$3.00; bus. \$10.00.

**Acquisition**—The best of the smooth, blue seeded, Ameer or Claudit type, and is certainly an acquisition for the market gardener as it will stand planting as early as Alaska. Height 2½ feet. Foliage and vine strong and sturdy and deep green in color; pods deep green, 4 in. long, broad, saddle-backed, slightly curved and pointed, containing 7 to 8 large, medium green peas. Price same as above. Supply limited.

**Extra Early Alaska**—Popular among market gardeners for an early crop. The pods are medium size, dark green in color and ripen almost at one time. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck \$1.50; peck \$2.50; bushel \$9.00.

**Pedigree First and Best**—An excellent strain of first early peas; very popular and largely planted throughout trucking sections. Height two to two and one-half feet. Price same as above.

**Prolific Early Market**—This is one of the largest podded and most productive of all smooth-seeded extra early peas. Vines grow about 30 inches in height, and can all be gathered in two pickings. The pods are remarkably well filled, and the peas sweet and fine flavored. A most satisfactory prolific early sort, both for the market gardener and the home gardener. Price same as above.

**Long Podded Alaska**—Vines of this variety grow about three feet high and are heavy bearers. The pods, three inches long, mature shortly after Alaska and are well filled with sweet, tender peas. Pkt. 10c; ½ pt. 15c; pint 25c; quart 45c; ½ peck \$1.50; 1 peck \$2.75; bushel \$10.00.

## Extra Early Wrinkled Varieties (Weight 56 lbs. per bushel.)

**M.-S. WORLD'S RECORD**—Medium vines of dark green color and heavy foliage, bearing large handsome well-filled pods measuring sometimes 4 ins. and longer, filled with from 8 to 12 tender, luscious peas. Pkt. 10c; ½ pt. 20c; pt. 30c; qt. 50c; ½ peck \$1.75; peck \$3.00; bus. \$11.00.

**Laxtonian**—A dwarf pea with large handsome pods. It is slightly earlier than Gradus, maturing about the same time as Thomas Laxton. Vines medium dark and medium heavy of foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of Vines, making it easy to pick, very heavy yielder. Price same as above.

**Thomas Laxton**—An exceptionally fine variety, growing three feet in height and yielding large podded peas, four to five inches in length, of the finest flavor, very early. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 45c; ½ peck \$1.50; peck \$2.75; bus. \$10.00.

**Gradus, or Prosperity**—One of the most popular wrinkled sorts. Even though it matures a short time later than the extra earlies, the pods, fully as long as those of the well-known Telephone, contain very large peas that are unexcelled for sweetness. Price same as above.

## Medium Early Wrinkled Varieties

(Weight 56 lbs. per bushel.)

**M.-S. LITTLE MARVEL PEA**—An extremely valuable variety, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green, fair sized, produced in pairs, and are closely filled with 7 to 8 peas of extra fine flavor. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 45c; ½ peck \$1.50; peck \$2.75; bus. \$10.00.

**Nott's Excelsior**—Resembling Little Marvel in habit and growth. Price same as above.

**Daisy, or Dwarf Telephone**—The striking features of the Daisy pea are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are well filled with large peas of most excellent quality. The vines are 16 to 18 inches high, and, being strong and thrifty, require no support, making it an ideal variety for use where brush or stakes are not available. This pea is desirable on account of the fine appearance of the pods. Price same as above.

**Pot Latch**—Resembling Daisy, or Dwarf Telephone in habit and growth. Price same as above.

## Medium and Late Varieties

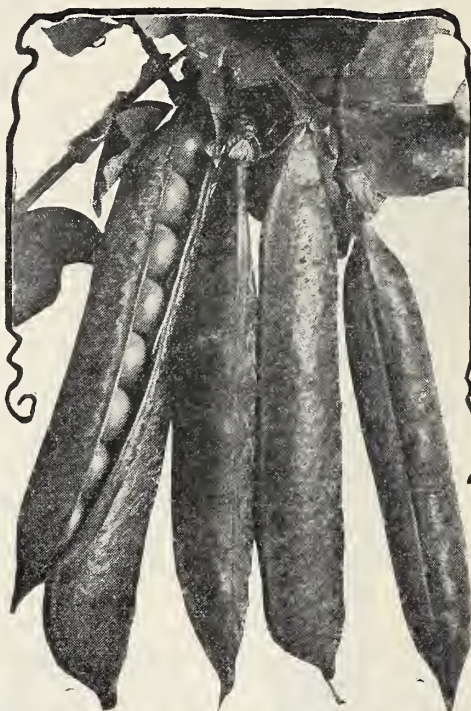
(Weight 56 lbs. per bushel except in Sugar Marrow.)

**Telephone**—For general planting this tall-growing variety is undoubtedly the most popular among market gardeners. The pods 4 to 4½ inches long, are light green in color and filled with large, sweet, tender peas. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 45c; ½ pk. \$1.50; pk. \$2.75; bus. \$10.00.

**Champion of England**—A standard pea; vines grow 4½ feet high and bear medium-sized pods of peas of good quality. Price same as above.

**Improved Sugar Marrow Peas**—We have the genuine stock of this variety. This pea is the kind planted principally by the larger growers around Baltimore for late crop. It is a strong grower and produces an abundance of large, well-filled pods. Pkt. 10c; ½ pt. 15c; pt. 25c; qt. 40c; ½ peck \$1.25; peck \$2.25; bus. \$8.50.

**Dwarf Melting Sugar**—The pods as well as the peas of this variety are edible and both very sweet. Pkt. 10c; ½ pt. 20c; 1 pt. 35c; 1 qt. 60c.



Early Bird Peas.

For the convenience of our customers, we suggest the varieties listed below, for successive planting and maturity.

These peas succeed each other in their numerical order as listed.

No. 1—Early Bird.

No. 2—M.-S. Worlds Record

No. 3—M.-S. Little Marvel.

No. 4—Daisy or Dwarf Telephone.

No. 5—Telephone.



## POTATOES

Subject to Market Fluctuations.  
Prices on large quantities furnished  
on application.

(German—Kartoffeln. French—Pomme de Terre)



Irish Cobbler.



### SEMESAN BEL America's Premier Potato Disinfectant

SEMESAN BEL acts as an antiseptic that either kills or retards the development of disease producing bacteria and fungi, as well as other similar parasitic organisms that may not produce disease results but which feed on the seed pieces, causing handicapped sprouting and weak or stunted growth of plants. 1 lb. \$1.75 will treat 10 bus.; 5 lbs. \$8.00.

Present price of all kinds: Peck \$1.00; bushel \$3.50;  
Sack of 165 lbs. \$8.00.

If wanted by parcel post, first and second zone,  
add to peck 22c, to bus. 67c.

Prices on quantity of Potatoes furnished on application.  
Potato prices subject to market fluctuation.

**Culture**—Planting may commence as early in the Spring as the ground can be worked. Place one piece every twelve inches in rows two and one-half feet apart, covering about four inches. When cutting the seed allow one eye to each piece.

Ten bushels cut tubers will plant one acre.

**Red Bliss**—Very early, thin, red skin, round, white flesh.

**Irish Cobbler**—This is an early potato of exceptional merit, which has given our trade entire satisfaction. The shape is round. Flesh is white and the eyes strong and deeply set.

**Houlton Early Rose**—The Houlton strain of the old favorite Early Rose has been the most popular on our market in recent years.

**M.-S. FILL BASKET**—On account of the large yields that have been reported on this potato, our sales on it have increased wonderfully. It is of handsome round shape and most desirable for the best trade. It is a vigorous grower, ripens uniformly, is a good keeper, medium late. The vines are always very heavy, the seed being especially vigorous, and tubers always good size, where soil is well tilled. Very smooth and a good cooker.

**Improved Green Mountain, Prosperity and Dakota Reds** (all three late sorts). Prices furnished on application.

**Choice Seed Sweet Potatoes, Leading Varieties**—Prices on application. Sweet Potato Plants. SEE PAGE 5.

#### Reference:

I am sending you a sample of Irish Cobbler Potatoes, which were raised from M.-S. Seeds, they produced 300 bus. to the acre, all such as I am sending you.

JOHN MEHL, Gardener,  
Foxcroft School, Middleburg, Va.

## Pumpkins

(German—Kurbiss. French—Potiron)

We pay postage on pkts., ozs., ¼ lbs. and 1 lbs.

One ounce for fifteen hills; three to four pounds plant an acre.  
**Culture**—Sow in the month of May. Make hills the same as you do for squashes, but do not make the hills too close.



King of the Mammoths, or Pot Iron Pumpkin.

grained yellow flesh, very solid. Price same as above.  
**Cushaw Striped**—Same as above, but it is green and white striped. Price, same as above.

**Japanese Pie**—Flesh very thick, rich salmon color, fine grain, dry and sweet. Price same as above.

**Tennessee Sweet Potato**—Excellent for pies; pear-shaped, medium size, flesh and skin creamy white, fine grained, sweet, a first rate keeper. Price same as above.

**M.-S. YANKEE PIE PUMPKIN**—The best Pie Pumpkin that grows. Strong vines bearing an abundance of good keeping, large handsome pear shaped, golden yellow pumpkin, which are so sweet that they require very little sugar and ripen early. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Cushaw, or Winter Crookneck**—An old standard variety, which is very popular. It is also used for feeding stock. Long yellow crookneck, fine



A garden or field planted with **GATOR HIDE MULCH** means less work and finer and bigger crops.

**Winter Luxury Pumpkin**—A very good keeper and a splendid pie Pumpkin; shape round; skin finely netted, and beautiful russet-yellow color; flesh thick and of fine flavor. Price same as above.

**King of the Mammoths, or Pot Iron**—An immense variety, which always wins prize offered for the largest and best pumpkins, grown to weigh over 200 pounds. Flesh of a rich, golden yellow; a splendid keeper. Pkt. 10c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.50.



Sugar or New England Pie Pumpkin.

**Sugar, or New England Pie**—For making pies this variety cannot be excelled. The Pumpkins are small but very sweet, fine grained and of the best quality. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25.

**Common Yellow, or Connecticut Field**—Very productive; for feeding stock. Pkt. 10c; oz. 15c; ¼ lb. 25c; 1 lb. 75c.

WE DO APPRECIATE HEARING FROM PLEASED  
CUSTOMERS.



# M-S. SELECTED RADISH SEED

(German—Radies. French—Radis)

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs.  
and 1 Lbs.

One ounce for fifty-foot drill; ten pounds in drills  
to one acre.

**Culture**—To be tender and crisp Radishes must be grown quickly, and this requires rich soil and plenty of moisture. Commencing with the first mild spell in the Spring, sow at intervals of ten days. May also be sown as a catch crop between rows of beets, lettuce, onions, etc. Radishes can be forced in hotbeds, but must have plenty of ventilation and moisture.

## Extra Early Varieties

**Scarlet Globe Early—M-S. Strain**—Highly recommended for truckers. This variety can be used for forcing and is recommended for early outdoor planting. It is small, round, red and of excellent flavor; its rich, crisp, tender flesh makes it very popular. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c; 10 lbs. \$7.00; 25 lbs. \$15.00.

**French Breakfast, Early**—Oblong shape, rapid grower, very mild and tender; of a beautiful scarlet color, tipped with white. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Early Long Scarlet Short Top**—The principal outdoor quick-growing variety, also very good for forcing. Grown in light, rich soil, its average length is about eight inches; grows half out of the ground, straight, uniform in color, brittle, crisp, small tops, bright scarlet. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Crimson Giant**—Like above but much larger. Very desirable. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Strawberry**—The exceptional merit of this radish is proved by its popularity increasing every year with successful market gardeners. This radish is a table dainty, crisp, tender and sweet; it is turnip shaped, bright scarlet color, and is a high class strain for out-door planting. It combines beautiful appearance with finest radish quality—appealing to the eye and palate. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

## Summer Varieties

**Large White Stuttgart**—Very large, top-shaped, flesh and skin white, fine quality, firm and brittle, seldom pithy. Can be stored for winter. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Large White Summer Turnip**—Round, smooth and very white; crisp and tender. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Golden Globe**—A favorite summer radish. Golden-brown skin, perfect globe shape, mild and brittle, slow to seed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Improved Chartier**—Somewhat resembling brightest scarlet—early radish. It is double the size and later; long scarlet and tipped with white. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

## Winter Varieties

**Long Black Spanish**—Large radish, with black skin and white firm flesh, grows six to eight inches long. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 90c.

**Round Black Spanish**—Like the above, except that it is round shape. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 90c.

**Long White Spanish**—Like the Long Black Spanish, only different in color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 90c.

**Round White Spanish**—Like the Round Black, but white, like all the Spanish radishes, which are fine keepers, mild flavor and brittle. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 90c.

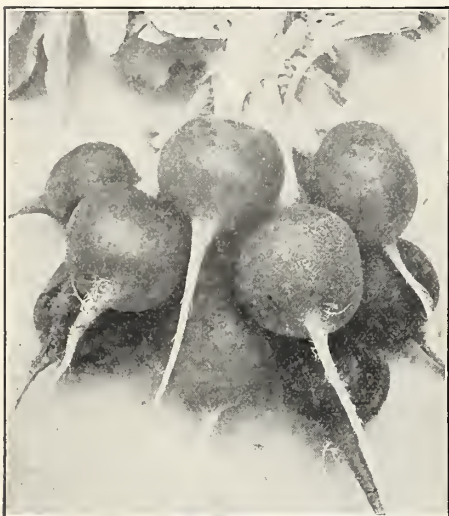
**China Rose, or Scarlet China**—Bright rose-colored, stump-rooted, of excellent quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 90c.

**White Chinese, or New Celestial**—Large stump-rooted, white skin and flesh, mild in flavor, brittle and never woody. For late planting and a splendid keeper. Market gardeners will find this a good variety that sells readily. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1b. 90c.

**Sakurajima (Mammoth Japan)**—The largest sort in cultivation. Sow early in rich soil. In Japan it grows as much as twenty-one inches long and forty-three inches in circumference. Thin well to allow of proper development. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

**Merima**—Also a Japanese radish. Similar to Sakurajima, but round instead of long. Very tender and sweet. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

**HORSE RADISH** (German—Meerrettig; French—Raifort)—  
SEE PAGE 5.



M-S. Strain Scarlet Globe.

### We Do Appreciate Hearing from Satisfied Customers.

We have so many favorable comments on our M-S. strain Scarlet Globe Radish that lack of space prevents us from listing same.

**Long, White Vienna or Lady Finger**—Has slender pure white roots which are smooth and average about 6 to 7 inches in size when matured. They are quite early and of excellent quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**Iceicle**—A beautiful long, slender radish, of recent introduction. Beautiful pearl-white color, firm and solid, slow to get woody. A good seller. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**White Strasburg**—Handsome, oblong, tapering shape, both skin and flesh pure white; flesh firm, brittle, tender and possessing the most desirable character of retaining its crispness, even when the roots are old and large. Excellent for Summer use, as it withstands severe heat and grows very quickly. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**New Glass, or Cincinnati Market**—A long Scarlet Radish with a distinctive white tip. A suitable radish for deep mellow soil. A fine radish for the home garden as well as an attractive one for the market stall. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**White Turnip (Short Top)**—Of quick growth; roots round, pure white, tails very thin; leaves short, flavor excellent. Fine for forcing and open ground. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

**White-Tipped Scarlet Globe**—A good forcing variety. Small size and very attractive, being a handsome, bright scarlet, with white tip. Very early and good quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Ruby King, Extra Early**—Of brilliant red color, fine for forcing or open ground; roots are tender; juicy and mild. One of the best round red Radishes that grows. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1b. 75c.

WHITE  
ICICLE  
RADISH

The best soil improver you can use is manure. Use plenty of it. We can sell you a whole wagon load in a 100 lb. bag of our High Grade Sheep or Cattle Manure, at a surprisingly low figure.

**M-S. EARLY CARDINAL RADISH**—These are the best little crisp red radishes, which come so early in the season; they grow globular in shape and are of the most brilliant cardinal red color; are tender and crisp; will stand the heat and are fine for forcing. The most desirable for home garden and market gardeners' use. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1b. 90c.



White Strasburg.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

## Rhubarb

(German—Rhababer. French—Rhubarbe)

**Culture**—Sow seed in a cold-frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frames covered during nights and cold days, so that the soil will not freeze, and in six or eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and set in rows twelve inches apart and twelve inches in the row. The following Spring transplant to a permanent location, setting four or five feet apart each way. In good soil Rhubarb is ready to use the second year from seed.

If our two-year-old roots are used, a crop may be had the same season, which is much better than sowing seed where only a few plants for family use are needed. In the Fall the bed should have a thick dressing of coarse manure, to be spaded under in Spring.

**Myatts Victoria**—The leading variety. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.50.

ROOTS—SEE PAGE 5.



## Salsify, or Oyster Plant

(German—Haferwurzel. French—Selsif)

One ounce to seventy feet of drill; about eight pounds to the acre.

**Culture**—Sow as early as the ground can be worked in the Spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till Spring, when it will be found fresh and plump. The roots are cut into pieces one-half inch long, boiled until tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet and agreeable flavor like that of the oyster.

**Mammoth Sandwich Island**—This is an improved type and the largest and most profitable salsify now in cultivation. It is white in color, and a satisfactory sort in every way; invaluable to market gardeners and truckers.

Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.



Mammoth Sandwich Island Salsify

## Swiss Chard

This makes large, handsome, finely crimped light green leaves, which are tender and have a delicious flavor, the ribs are edible and not unlike asparagus. Absolutely the best for home gardens. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. \$1.00.

**Swiss Chard, or Spinach Beet Giant Lucullus**—The leaves of Swiss Chard are used as greens, cooked in the same manner as spinach, and the large ribs are prepared like asparagus, in which manner they are delicious. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Fordhook Giant**—Decidedly the best of the Chards. Leaves broad, upright in growth, and very dark green, crimped or savoyed, with broad, white mid-rib. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$2.50.



M.-S. Swiss Chard Delmonico.

## Vegetable Marrow

**Italian (Cocozelle di Napoli)**—Grows about 20 inches long, with a diameter of 3 or 4 inches. Skin smooth, dark green, mottled yellow or pale green.

**Cosazza**—Similar to the above. Great favorite with the Italians. Price of both, Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

## Sorrel, or Sourgrass (German—Sauerampfer. French—Oseille)

**Culture**—Sow in Spring in drills 18 inches apart, in a rich soil and keep the flower-stems cut off as they appear. It remains in the ground year after year, and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, one-third Sorrel to two-thirds Spinach. It is also used for soups. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Large French—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

## Squash

(German—Gemuse Kurbis. French—Courge)

Bush sorts, one ounce for fifty hills; five to six pounds to acre; running varieties three to four pounds in hills for an acre.

**Culture**—Squashes should be planted in a warm, light, rich soil after the weather has become settled and warm, about the middle of May or June. Plant in well-manured hills, in the same manner as Cucumbers and Melons—the Bush Varieties three to four feet apart each way, and the running kinds from six to eight feet. Eight to ten seeds should be sown in each hill, thinning out after they have attained their rough leaves and danger from bugs is over, leaving three to four of the strongest plants per hill.



M.-S. Perfection Bush Squash.

**M.-S. PERFECTION BUSH**—This is the finest scalloped white squash that grows, obtaining large size but stays tender as butter for a long time. The best for home gardens and market gardeners. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.25.

**Early Mammoth White Bush**—An excellent strain. Early, prolific, much larger than the old White Bush. Splendid for market, best for shippers. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**GREEN TINTED BUSH**—Particularly desirable for Market Gardeners on account of its green tinted, well scalloped, uniform small sized fruit. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**Summer Crookneck, Bush Variety**—About one foot long, with crooked neck, bright yellow, warty, shell hard when ripe. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**Hubbard**—An excellent keeper; splendid quality. Vines of strong running growth. Large olive-shaped fruits with dark-green skin; very rich flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Golden Hubbard**—Like the above, but of a beautiful orange-red color, except for a bit of olive-green on blossom end. Flesh deep orange, drv. fine grained and richly flavored. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**Boston Marrow**—This is a large-fruited hard-shell sort, highly esteemed for Winter use, having bright orange skin and deep orange flesh. Very fine, extensively used for pumpkin pies. Fine strong running growth. Very productive, oval shape. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**Blue Hubbard**—A new variety and a selection from the original Hubbard. Fruit gray blue color; grows large; remarkably good keeper, and excellent quality. Running variety. Pkt. 10c; 20c per oz.;  $\frac{1}{4}$  lb. 50c; \$1.50 per lb.



Summer Crookneck Squash.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.**M.-S. "SURE CROPPING" TOMATOES**

(German—Liebesapfel. French—Tomate)

One ounce for 1, 500 plants; quarter pound (to transplant)  
an acre.

Disinfection of the seed by dusting with SEMESAN at the rate of 1 ounce to 15 pounds of seed, or by soaking it for 25 minutes in normal liquid SEMESAN, prevents seed-rotting in soil, increases stand, vigor, and yield of plants. Ask for SEMESAN Vegetable Booklet giving complete directions.

**Culture**—This delicious vegetable is one of the most important of all garden products. The seed should be sown in a hot-bed about the first week in March or latter part of February, in drills five inches apart, and half an inch deep. When the plants are about two inches high they should be set into small pots, allowing a single plant to a pot. About the first of May the plants may be set out in the open ground in hills three feet or four feet apart each way. (Sufficient plants for a small garden may be started by sowing a few seeds in a shallow box or flower pot, and placing it in a sunny window of the room or kitchen.) Cultivate thoroughly as long as the vines will permit, but the last two or three workings of the soil should be very shallow (surface cultivation), or the crop may be badly injured, especially if the cultivator is run too near the young plants.

Marglobe Tomato.

**Marglobe**

(Pritchard Strain)

Tested repeatedly and approved by the United States Department of Agriculture. Is sure to be planted extensively before long. This is what the Department says about it. "Very productive, second early variety. Fruits large, smooth, meaty, red, globular. Highly resistant to wilt and somewhat resistant to blights. Pkt. 10c;  $\frac{1}{2}$  oz. 30c; 1 oz. 50c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$5.00.

A great many of our customers claim the "Marglobe" the best tomato they ever planted.

AUGUST KRAMER, Pasadena, Md.—Your Marglobe Tomato is the best main crop variety I have ever planted.

**EARLY VARIETIES****M.-S. Early Wonder**

This is the sixth year that we are offering this wonderful extra early Tomato, after several years of careful selection. The fruits are large for so early a variety, round or slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkt. 10c;  $\frac{1}{2}$  oz. 35c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00; 1 lb. \$6.00.

**Extra Early I. X. L.**—Combines extreme earliness, immense size and prolificness. Fruit red, ripening mostly all at one time. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

**Sparks Earliana**—Particularly desirable for shipping and for earliest market. The fruits are smooth, round, of red color, making desirable and salable fruits. Price same as above.

**Chalks Jewel**—A tomato of fine quality. Second early, round, smooth red fruit of excellent flavor. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**SECOND EARLY VARIETIES**

**Bonnie Best**—The finest of the second early tomatoes. About a week later than the Earliana, but far superior in quality. Fine red color, fine quality, hardy and productive. Excellent flavor. A most profitable variety for early and main crop. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.

**John Baer**—Is a good, all around second early tomato, the fruit being smooth, ripening clear to the stem and of a good rich red color. Price same as above.

**June Pink**—For gardeners who have a market for a nearly purplish pink fruit (which is produced in clusters). This is the variety to plant. True strain seed. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; 1 lb. \$4.00.



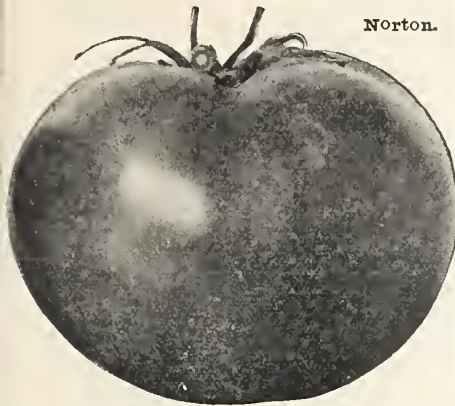
Bonnie Best.



Tomatoes grown on PAPER MULCH  
mature quicker and are of finer quality.

CHAS. E. BROWN, of Waynesboro, Pa., tells us that our M-S Early Wonder and Marglobe Tomatoes are absolutely the best he ever had.





Norton.

trade. Introduced by U. S. Dept. of Agriculture. Pkt. 10c; 1 oz. 50c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Wisdom**—This tomato of recent introduction has become very popular. It is a great yielder of large handsome red fruit, which ripens clean to the stem. It makes very strong vines and should be given plenty of room. Pkt. 10c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Kellys Red**—This variety has obtained immense popularity in the last few years. It was originated in Anne Arundel County. Its solidity and carrying qualities are remarkable. Its color is a desirable red. Its shape perfectly smooth and thicker from stem to blossom than most varieties, making it very handsome and salable. Nobody finds any fault with this variety, but all speak in the highest terms of its beautiful color, its wonderful yielding qualities, its unequalled firmness, or some other of its good points. Pkt. 10c; oz. 25c; ¼ lb. 75c; 1 lb. \$2.50.

**Greater Baltimore**—General crop tomato of sterling merits; large, smooth, beautiful red skin fruits, which are produced in great abundance until frost kills the vine. Price same as above.

**B. B. (Brinton's Best)**—A very fine late crop tomato, which is similar to the New Stone. Keeps well after being picked. A vigorous grower and quite popular. Price same as above.

**M.-S. IMPROVED NEW STONE**—This variety is one of the very best tomatoes grown. For productiveness, shipping and canning qualities it is excelled by none. Bright scarlet, fine flavor, very smooth and round. We recommend it as a thoroughly reliable main crop tomato. Price same as above.

**Matchless**—Large, solid, smooth, handsome, deep red color, a heavy cropper and popular with canners. Price same as above.

**Red Rock**—A tomato for main crop. Producing enormous quantities of fine, large, red tomatoes, which carry well, making it a good shipper. Price same as above.

**Ponderosa**—Remarkably large and of fine quality. Very solid. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$6.00.



Greater Baltimore.

## MAIN CROP VARIETIES

**M.-S. BIG CHIEF**—A grand new main crop tomato of the very highest quality. It produces an abundance of large handsome red fruit, which ripens clean to the stem and will bear heavily from the early part of July until frost. It is a very shy seeder. The meat is deliciously juicy and free from acid. It is rare to see an ill-shaped fruit on a M.-S. BIG CHIEF VINE. We have tested this valuable new variety very carefully and have always been more than satisfied with the results. Order quick, as the seed is scarce, grown exclusively by us. Pkt. 10c; oz. 40c; ¼ lb. \$1.50; 1 lb. \$5.00.

**Norton's**—A wilt-resistant selection of the Stone type, maturing in about 160 days. This means it is a main-crop variety adapted to sections where the growing season is comparatively long. The fruits are somewhat flattened but of large size, and particularly recommended for the canning

## PRESERVING VARIETIES

**Golden Queen**—Bright-yellow, large and solid. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.50.

**Yellow Pear and Yellow Plum**—Two small-fruited kinds for preserves. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.25.

**Red Pear**—Pear-shaped red. Pkt. 10c; ½ oz. 25c; oz. 40c.

**Peach**—Very small, pink fruit, with slight peach bloom on skin. Pkt. 10c; ½ oz. 25c; oz. 40c.

**Husk or Strawberry**—Used for preserves. Pkt. 10c; ½ oz. 30c; 1 oz. 50c.

**Red Cherry**—Small, grows in clusters, also used for preserving. Price same as above.

TOMATO PLANTS, SEE PAGE 5.

## Germaco Hotkaps



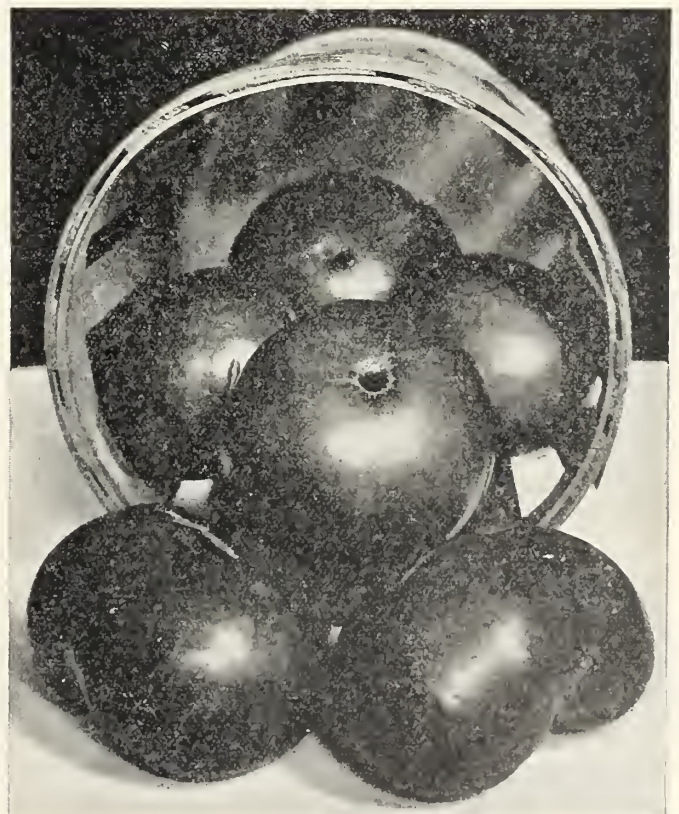
### Protect Plants for Profit

GERMACO HOTKAPS can make you extra dollars this season. They protect plants from frost, wind, rain, insects and ground crusting. Thus they produce harder, quicker crops. You get higher prices!

Thousands were used in 48 states last year. They cost so little that growers cannot afford to be without them.

Prices: 1,000 lots, \$11.50; postpaid, \$11.75; 5,000 lots, \$11.00; 10,000 lots, \$10.75. 250 trial package, including garden type waterproof setter, \$4.00; postpaid, \$4.15; Germaco steel HOTKAP setter, \$2.50; postpaid, \$2.60.

If you need HOTKAPS for your backyard garden, note these prices: 50 with garden setter, \$1.50; postpaid, \$1.60; 100 with garden setter, \$2.25; postpaid, \$2.40; garden setter alone, 50c; postpaid, 60c.



M.-S. Big Chief.



## Turnip

(German—Rube. French—Navet)

We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

One packet for 100 feet; two pounds to the acre.

**Culture**—For early use sow as soon as the ground opens in Spring, drills from 12 to 15 inches apart; thin out to six or nine inches in the rows. For a succession, continue to sow in July and August. The Ruta Bagas are grown for feeding stock, and are also excellent for the table. Take up the roots in November or before severe frosts; cut off the tops within an inch of the crown, store in a cool cellar or pit, or pile up in a conical form, out of doors, in dry ground; cover carefully with long straw and finish by earthing up, covering them with about 12 or 15 inches of earth, leaving a trench around the heap to carry off the water. Put away in this manner they will be found in good condition in the Spring.

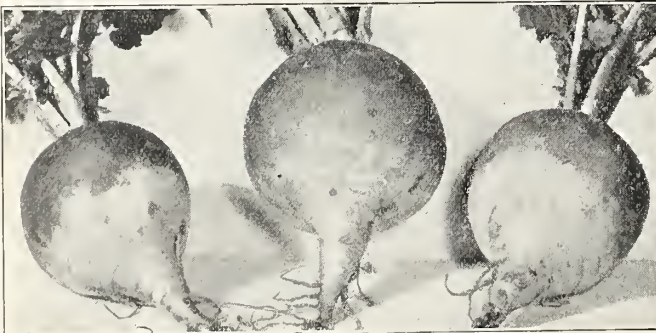


M.-S. Early Champion Turnip.

**M.-S. EARLY CHAMPION TURNIP**—This is the best Turnip for home gardens and market gardeners to plant. It is large perfect globe shape, white as snow with a beautiful distinct red shoulder (tops are not over large), stays tender and sweet a long time. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Red, or Purple Top White Globe**—A variety of decided merit, and the most popular in our markets. Globular-shape, very handsome and of superior quality. Is a heavy producer, early, and of rapid growth, and an excellent keeper. Besides being a first-class table turnip, it is also very good for stock. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Extra Early Purple Top Strap Leaved**—Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 50c.



Improved Purple Top Ruta Baga.

**Improved Purple Top Ruta Baga, or Swede**—The leading variety of Ruta Baga and is grown principally for stock, although it is very often used for table. Hardy, productive, flesh yellow, solid, sweet, fine grained and of good flavor. Ruta Bagas should be sown about one month earlier than other turnips. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Purple Top Yellow Aberdeen**—Medium size, round, pale-yellow, tender and sugary. Is hardy and productive and keeps well. Closely approaches Ruta Baga in hardness and firmness of texture. This is an old esteemed variety for stock. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**White Egg**—A quick-growing, egg-shaped variety. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Yellow, or Amber Globe**—Excellent for table use or stock. Fine quality, keeps well. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Pomeranian White Globe**—Free growing and rough-leaved. Pure white. Useful for table and stock. Large and productive. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

**Cow Horn**—A long, white, carrot-shaped turnip, which grows half out of the ground. Mostly used for feeding stock, but makes a fine table sort. Has lately been brought to prominence for green manuring in connection with rape. Pkt. 10c; 1 oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Seven Top**—Grown exclusively for its tops, and when properly prepared and cooked, make a fine dish. Withstands our winter without any protection. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 20c; 1 lb. 60c.

**Tennoji Turnip**—A Japanese variety of exceptional merit. Flat, snow white and of immense size, but very fine flavor. Seed very scarce. Pkt. 10c; oz. 25c.

## Spinach

(German—Spinat. French—Epinard)

One packet will sow fifty feet of drill; 15 to 20 lbs. to an acre.

Prices on larger quantities furnished on application.



Bloomsdale Savoy Leaved Spinach.

**Culture**—Sow in early Spring, in drills a foot apart, every two weeks for a succession, and as it grows, thin out for use. For Fall use, sow in August, and for Winter crop in September. Cover that which is left over winter with straw or leaves after the weather becomes quite cold. Keep clear of weeds. Sow the seeds of New Zealand in hills two feet apart each way, three or four seeds in a hill.

**M.-S. Re-selected Bloomsdale Savoy Leaved**—The popular Fall Spinach so largely grown for market. Grows upright, the leaves being crumpled, dark green and very thick. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.25; 100 lbs. \$16.00.

**New Long Standing Bloomsdale**—Has all the good points of the above, in addition, it will withstand the summer heat and goes to seed very slow. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.50; 100 lbs. \$20.00.

**Virginia Blight Resisting Bloomsdale Savoy**—This strain is not as heavily crumpled and of lighter color than the Re-selected Savoy. However in places where plants grown from Re-selected Savoy Seed show blight, this strain has proven to give excellent results, being absolutely free from blight. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.50; 100 lbs. \$20.00.

**Juliana**—Very long standing, heat resisting, handsome dark-green. Very thick and curled leaves. Absolutely without male plants which is the cause of the long-standing quality. Pkt. 10c;  $\frac{1}{4}$  lb. 15c; 1 lb. 35c; 5 lbs. \$1.50; 100 lbs. \$20.00.

**New Zealand**—Of delightful flavor and practically everbearing. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.

## Tobacco Seed

**Culture**—A very clean piece of land is best for the tobacco plant beds, hence it is customary to burn a piece of land in the woods for plant beds. This destroys grass, weeds and insects, adds fertility through the action of the wood ashes, and leaves the ground in good order. The seeds are sown about February and protected by plant bed cloth to keep off tobacco flies. When large enough and weather is settled (about June) set the plants out in highly manured or fertilizer soil in  $3\frac{1}{2}$ -foot rows, 3 feet between the plants. Constant care must be given, cultivating, suckering, worming, etc. Methods of curing differ according to the variety and color, whether to be sun or fire-cured, etc.

**Connecticut Seed Leaf.**

**Improved White Burley**—A heavy yielder of rich, bright leaf, large, long and broad. Should be grown only on limestone soil.

**Choice Havana**—An Americanized Havana, used for cigar purposes, although sometimes used as a manufacturing sort. Has a very large, long, fine quality leaf; very early, making two crops a season in some sections. Best adapted to chocolate or rich gray soils.

Above varieties—Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.00; 1 lb. \$3.50.



We Pay Postage on Pkts., Ozs.,  $\frac{1}{4}$  Lbs. and 1 Lbs.

(German—Wasser Melone.  
French—Melon d'eau)

## WATERMELON

One ounce for thirty hills; four to five pounds for an acre.

**Culture**—Watermelons should be planted in hills eight to ten feet apart. Otherwise for culture, see directions for cantaloupes. Do not grow them near pumpkins or gourds.



M.-S. Sweetheart.

**M.-S. SWEET HEART WATERMELON**—The sweetest melon that grows. The best for home use and nearby markets. The dark red meat which extends almost to the rind, is of the most delicious flavor. Vines are strong and vigorous, the melons are medium to large in size. The skin is a very rich, dark green color. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.



A garden planted with **GATOR HIDE MULCH** means less labor and finer vegetables.

**M.-S. EXCEL**—A great improvement over Tom Watson. Long green. Excellent for market gardeners and shippers. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**TOM WATSON**—Our strain of this wonderful shipping melon has been very much improved in the last few years. It commenced to show white, hard centers, but through careful selecting our strain will produce nothing but melons which are red from the rind to the center, not showing any white streaks. The rind is very tough, making it an excellent melon for shipping long distances. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**McIver's Wonderful Sugar**—Resembles Old Rattlesnake, superior in quality. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**Florida Favorite**—Large, long, striped, excellent for family garden. Rind thin, but firm; flesh very deep red and very sweet. Splendid shipper. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.



Improved Kleckley Sweet.



Tom Watson Watermelon.

**Gray Monarch, or Long White Icing**—Very large, long, crimson flesh. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**IRISH GREY**—The rind is exceptionally hard and firm. The flesh is bright red, sweet, firm but free from any hard centers or stringiness. A very desirable variety for those who prefer a long, light colored shipping melon. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

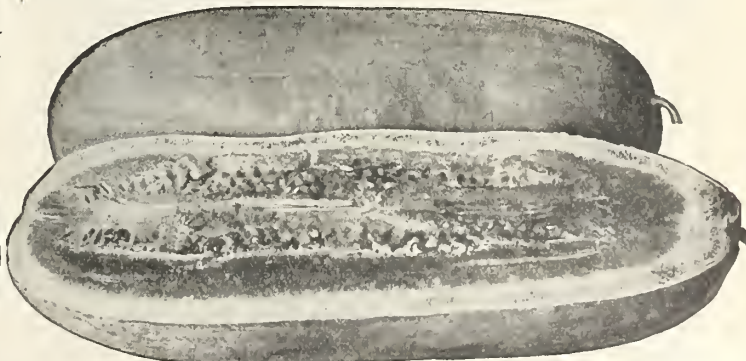
**Indian Chief**—Excellent shipper.. Price same as above.

**Improved Georgia Rattlesnake**—The old Rattlesnake has always been regarded as a fine melon. Our strain is the result of careful selection by an experienced melon grower through many years of careful and watchful work. The rind is thin and tough, the flesh deep scarlet, the flavor unsurpassed by any other sort. We strongly recommend it both for shipping and home use. Our improved stock is very much superior to the ordinary Georgia Rattlesnake. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 85c.

**IMPROVED KLECKLEY SWEET**—Some years ago our grower set out to perfect a new type of this favorite melon, for the reason that the original type began to show some deterioration, and the color of the seed was showing decidedly too much brown smear, melons were not all growing uniform in size, and with the feeling that it is a grower's duty to keep the type of all good melons up to standard he carefully selected and bred this type until we now have a much better melon than the old type Kleckley Sweet; this improved type grows uniformly large, retaining all of the fine qualities as a table melon, with an important added feature of having much harder rind, which assures its satisfactory carrying quality, while the old type will not stand even short distance shipping in carloads. The seed are all creamy white, with no trace of brown, somewhat larger than the old type seed, the color of the rind remain the same—dark bluish green—and grows to much larger size than the old type. Fine for the home garden. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.

**GOLDEN HEART WATERMELON**—A decided novelty in Watermelons. Vigorous vines producing an abundance of light green melons, which have delicious yellow meat almost to the rind. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c.

**CITRON**—Grows uniformly round and smooth, striped and marbled with light green. Flesh white and solid; seeds red. It should be borne in mind that this variety is not used for eating in the raw state, but for preserves, pickles, etc. Pkt. 10c; oz. 15c; 1 lb. 75c.



Gray Monarch.



# M.-S. RELIABLE GRASS, FORAGE AND FARM SEEDS

If Grasses Are Wanted by Parcel Post, Allow for Postage. Prices on Grasses Subject to Market Changes.  
Write for Samples and Prices in Larger Quantities.

ALL LAWN GRASSES AND CLOVERS ARE LISTED ON FRONT PAGE

**M.-S. Permanent Pasture Mixture**, either for Low or Up Lands. It is made up of grasses best calculated to afford an abundant and nutritious food supply for stock. The formulas are based upon successful experience. For all ordinary permanent pasturage, they will be found entirely satisfactory. When ordering state if for a low or up land, price of either: **Lb. 35c; 10 lbs. or over at 30c; \$8.40 per bushel of 30 lbs.**



M.-S. Permanent Pasture Mixture makes a nutritious food for cattle.

**Blue Grass, Fancy Kentucky**—(*Poa Pratensis*)—Our stock of this is extra fine, thoroughly re-cleaned; sow 3 to 5 bushels per acre on lawn, 2½ to 3 bushels on pasture fields (bushel 14 lbs.). **Per lb. 50c.** Larger quantity on application.

**Bermuda Grass**—Adapted for seashores; very hardy. **Lb. 75c.**  
**Timothy (Phleum Pratense)**—Sow one-half bushel per acre alone; with clover, 1 peck (45 lbs. per bu.). **15c per lb.** Price varies constantly; ask for quotations in larger quantities.

**Crested Dogtail (Cynosurus Cristatus)**. Excellent as a pasture and lawn grass. Sow 3½ to 4 bu. per acre (21 lbs. per bu.). **Price, lb. 65c.**

**English, or Perennial Rye Grass (Lolium Perenne)**. This makes the quickest returns in growth of any grass; is deep rooted and is readily established. Sow 2½ bushels per acre (20 lbs. per bu.). **25c per lb.**

**Hard Fescue (Festuca Duriuscula)**—A splendid grass for golf links, tennis courts, etc.; will resist droughts. Sow 3 bu. per acre (12 lbs. per bu.). **Price, lb. 50c.**

**Herd, or Red Top Fancy Re-cleaned**—(*Agrostis Vulgaris*). This is one of the best grasses for sowing for immediate effect. Our stock is free from chaff and is absolutely pure. Sow 40 lbs. per acre (32 lbs. per bu.). **Price lb. 40c.**

**Meadow Fescue (Festuca Pratensis)**—Sow 40 to 50 lbs. per acre (22 lbs. per bu.). **Price, lb. 40c.**

**Italian Rye (Lolium Italicum)**—Very desirable for pasture; being an annual, it comes to maturity the first season; the ideal lawn seed for Southern lawns in winter. Sow 50 lbs. per acre (18 lbs. per bu.). **25c per lb.**

**Orchard Grass (Dactylis Glomerata)**—For early pasturing this is very desirable; also fine for sowing in shaded places. Sow 40 lbs. per acre (14 lbs. to bu.). **Price, 30c per lb.**

**Red, or Creeping Fescue (Festuca Rubra)**—Very valuable for sowing on sandy soil and in shaded places and putting greens, tennis courts, etc. **Price, 50c lb.**

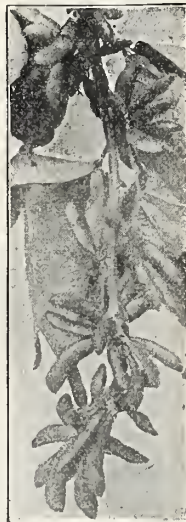
**Timothy (Phleum Pratense)**—Sow one-half bu. per acre alone, with clover 1 peck (45 lbs. per bu.). **15c per lb.** Price varies constantly; ask for quotations in larger quantities.

**Broom Corn (Sorghum vulgare)**—Succeeds in a good, deep soil, fresh but not damp, very sensitive to cold. Long-brush Evergreen, which is made into Brooms. (Bu. 50 lbs.). **20c lb.**

**Kaffir Corn**—Of great drought-resisting quality. Can be sown as late as July; 10 lbs. to the acre in drills (bu. 56 lbs.). **10c lb.**

**Cow Peas (Vigna Catjang)**—Valuable in this latitude as a fodder plant; their chief value, however, is as a green crop to plow under. The seed should not be sown till the ground has become warm. Sow 2 bu. per acre broadcast; 1 bu. in drills. We offer Black Whipperwill, Gray, New Era, Black Eye and other leading varieties, also mixed. **10c per lb.** Quantity price on application.

**Soja Bean (Glycine hispida)**—Mammoth Yellow, Brown and Black, Pekin, Sable and Wilson Blacks—All thrive well in our climate. Valuable for the South. Does not make good hay, but is good for ensilage or green fodder. Sow 1½ bus. per acre alone, or ½ bu. soja beans with 1 bu. cow peas. Yields as high as 20 tons of green feed per acre. **10c per lb.** Quantity price on application.



Soja Beans.

**Sudan Grass**—A tall annual grass, growing 6 to 8 feet high when drilled, but when sown broadcast thickly does not grow quite so tall. Every farmer and stock raiser should learn about this wonderful grass, as it is eaten by all kinds of stock, and will produce more hay to the acre than any grass that has ever been introduced. Allows 3 to 4 cuttings, and produces 2 to 5 tons per acre, depending upon the soil. Can either be drilled at the rate of 2 to 3 pounds per acre in 3-foot rows or broadcast at the rate of 10 to 20 pounds per acre. Plant from March to August. **25c per lb.** Larger quantities, price on application.

**Peas (Canadian Field)**—Valuable for cattle feeding, especially for milch cows. It also makes fine ensilage. It is sown broadcast in the spring and harrowed in. If sown with oats, about 1½ bus. to acre; in drills, 2 bus. to acre (bu. 60 lbs.). **Lb. 10c.**

**Golden Millet (Panicum Millaceum var)**—An improved variety, medium early, growing 3 to 5-feet high. Heads are closely condensed, though the spikes are very numerous. Sow 40 to 50 lbs. broadcast to the acre (bu. 50 lbs.). **10c per lb.**

**Japanese Buckwheat**—In the locality of Baltimore this is sown anywhere from June 1st to July 15th; one bushel of 48 lbs. broadcast to the acre. **15c per qt.; pk. 75c.**

## Sorghum, or Sugar Cane

Ideal cattle food. Sow 1 or 2 bu. broadcast; 25 lbs. to the acre in drills. (Bu. 50 lbs.)

**Early Amber**—Grows 10 to 13 feet high. Fine for cows, either green or cured. **Lb. 10c.**

**Early Orange**—Ripens about 10 days after Early Amber, and is said to produce a larger crop. **Lb. 10c.**

**Sunflower—Large Russian—Lb. 15c.**



Sorghum.

## Vetch, Spring and Winter

**Sand, Winter, or Hairy Vetch (Vicia villosa)**—Thrives on poor, arid, sandy soils. It may be sown either in Fall or in Spring, mixed with rye, for a support. Grows three to four feet high and can be cut as soon as the bloom appears, and again for the seed. Perfectly hardy. Sow 50 pounds to the acre. Price variable. **Lb. 25c.**

**Spring Vetch**—Same as above, but not hardy; sow in Spring only. **Lb. 15c.**

MR. E. J. T. CARVEL, of Stevensville, Md., writes and says that our seeds are better than he has had from anybody. He also says that he is well pleased with the way we have been handling his orders.

Innoculate  
All Clovers,  
Cow Peas, Vetch  
and Soja Beans  
with  
**STIMULGERM  
CULTURE**  
For particulars  
see page 29.



# SEED INOCULATION

*The Best Inoculation  
for All Legume Seeds*

## STIMUGERM

LEGUME INOCULATION

*Means Better Crops  
Better Soils  
Less Fertilizer Expense*

**FOR ALFALFA, CLOVER, BEANS, PEAS, VETCH, ETC.**

STIMUGERM is a culture of bacteria especially selected and bred for maximum vitality and ability to form nodules and take nitrogen from the air. STIMUGERM contains many millions of active, hardy legume bacteria, guaranteed to work. You can obtain STIMUGERM in either **JELLY** or **HUMUS** form.

Seeds of all legumes—clover, alfalfa, sweet clovers, soy beans, vetches, etc.—will yield far better returns if inoculated before planting, and in addition leave in the soil heavy deposits of valuable nitrogen which benefits all succeeding crops. It is crop insurance at very low cost, and the results will repay the small effort involved beyond your expectations.

These scientifically bred cultures are far superior to the natural germs in the soil and therefore inoculation is preferable to uncertain and laborious soil transfer.

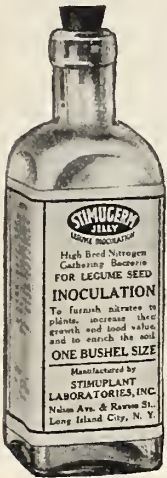
**PRICES ON CULTURES FOR ALFALFA AND CLOVERS—POSTPAID**

1/4-bus. size .....	\$0.35	1-bus. size .....	\$1.00
1/2-bus. size .....	.60	2 1/2-bus. size .....	2.25

**Prices on Culture for Large-Size Seeds, Such as Soy Beans,  
Vetch, Cowpeas, Peas and Beans.**

1/2-bus. size .....	\$0.35	1-bus. size .....	\$0.60
2-bus. size .....	\$1.10	5-bus. size .....	\$2.25

**Special Garden Size for Garden Peas, Beans, and Sweet Peas, 25c.**



**Ventilated can  
opens easily with-  
out cutting**

Be sure to specify quantity and variety of seeds you wish to inoculate; also state whether Stimugerm Jelly or Humus is preferred.

## Clover Seeds

Write for Samples and Prices in Larger Quantities.  
Prices Subject to Market Fluctuation.

**Alfalfa, or Lucerne (Medicago sativa)**—Requires deep, rich, well-drained soil. Roots very deeply, the tap-root descending often to a depth of 10 or 15 feet in loose soil. It is, consequently, capable of resisting great droughts. It should be sown alone (about the same time as oats are sown in this section) in thoroughly prepared, deeply plowed soil, at the rate of 20 to 25 pounds to the acre. It is also successfully sown as late as August and up to the middle of September. The crop should be cut when the plant is coming into bloom. In suitable soil it is perennial, and several crops may be cut every year. Height, one to three feet. We handle home as well as foreign grown alfalfa. **30c per lb. Grimm Alfalfa, certified, 50c per lb. Large quantity price on application.**

**Alsike, or Hybrid Clover (Trifolium hybridum)**—A perennial, one to three feet high; grows well in our locality and can withstand severe cold. A good honey plant for bees. Fifteen lbs. to the acre. **Lb. 35c.**

**Red Clover (Trifolium pratense)**—One of the most valuable farm crops for pasture, hay, or for turning under for green manure. It requires a deep, rich soil and yields two hay crops in the season. Sow at the rate of 15 pounds to the acre. **Lb. 35c.**

**Mammoth Red, or Sapling Clover**—Grows larger and lasts longer than the common red clover; valuable for plowing under. Ten pounds to the acre. **Lb. 40c.**

**Crimson, or German Clover (Trifolium incarnatum)**—Erect annual, one to two feet high, with bright-scarlet flowers. It is largely grown for improving the soil by turning under. It is a valuable crop for pasturage or green manure. For hay it should be cut when in full bloom. Sow 20 pounds to the acre. **Lb. 25c.**

**White Sweet Clover (Melilotus Alba or Bokhara)**—Valuable sort for soiling and for ensilage and bees. Grows from 3 to 5 feet high; sown in rich soil; may be cut three times; lasts for years if cut before flowering. **Lb. 25c.**



## Oats

Appler, Virginia Gray and other best varieties for Fall and Spring sowing. 32 lbs. per bu. Sow 64 to 90 lbs. per acre. **Lb. 10c.**

**Samples and Bushel Prices on Grain, Clover and Grass Seeds on Request.**

## Seed Rye

The most popular Fall seeded forage and fertilizing crop grown. Furnishes excellent green food for poultry, hogs and live stock of all kinds. Keeps stock healthy and saves expensive commercial dry feeds. Hogs on rye pasture will make the same gains with half the amount of grain feed. Sow 1 to 1 1/2 bus. per acre broadcast.

Rosen and other varieties. Sow 1 1/2 bus. to the acre from July to November. 56 lbs. per bu. Sow 85 to 100 lbs. to acre. **Lb. 10c.**

## Seed Wheat

Bearded and Beardless varieties. 60 lbs. per bu. Sow 90 to 100 lbs. to acre. **Lb. 10c.**

## Rape

**DWARF ESSEX ENGLISH (Brassica napus)**—Is excellent for sheep and hog pasture, and chicken yards, also for soiling. It may be sown in May, and will be ready for pasturing in July and August. Or it may be sown in June or July, and yet furnish a large amount of pasture or fodder. In drills, sow five lbs. to the acre; sown broadcast, ten pounds to the acre. **Lb. 15c; 10 lbs. \$1.25; 100 lbs. \$10.00.**

## Winter Barley

48 lbs. per bu. 96 to 110 lbs. per acre. One of the most productive Fall seeded grain crops grown. Being planted more extensively each year. Provides an abundance of highly nutritious forage, hogs, sheep, cattle, etc., being especially fond of it. Grown in this section largely for grain. Yields 25 to 50 bushels per acre. Invariably brings good market price. Sow 1 to 1 1/2 bushels per acre broadcast. **Lb. 10c.**



**CERESAN**  
A Single Disinfectant  
to Treat Your  
Wheat, Oats, Barley  
and Other Cereals  
against Smut.  
See page 51.



# M.-S. Reliable Flower Seeds

**Sow the Seeds** either broadcast or in rows, and cover lightly—a good general rule is to cover several times the size of the seeds and press the soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil. To have the earliest blooms, flowers that stand transplanting should be sown early in boxes indoors. Water with a fine spray, do not let the soil dry out, do not keep the plants saturated, as they may damp off. When three or four leaves have formed transplant one inch apart in boxes, or in the open ground if warm enough.

## FLOWERS FOR SPECIAL PURPOSES.

it in both lists. Note carefully the heights of the plants so that a proper selection may be made.

**FOR BORDERS AND BEDDING.**—6 to 12 inches high. Alyssum, Brachycome, Candytuft, Dusty Miller, Centaureas, Daisy, Dianthus, Forget-Me-Not, Lobelia, Mignonette, Pansy, Bedding Petunia, Dwarf Phlox, Iceland Poppy, Pyrethrum, Portulaca, Verbena.

**FOR BORDERS AND BEDDING.**—1 to 2 feet high. Ageratum, Amaranthus, Antirrhinum or Snapdragon, Aquilegia or Columbine, Asters, Balsam, Begonia, Calendula, Calliopsis, Candytuft, Carnation, Clarkia, Chrysanthemum, Coleus, Centaurea, Cockscomb, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Godetia, Heliotrope, Annual Larkspur, Marigold, Marvel of Peru, Mignonette, Dwarf Nasturtium, Petunia, Phlox, Poppy, Salpiglossis, Salvia, Scabiosa, Stokesia, Stocks, Sweet William, Vinca Wallflower, and Zinnia.

**PLANT IN BOXES AND TRANSPLANT.**  
Ageratum, Aster, Calendula, Canterbury

Bells, Calliopsis, Chrysanthemum, Cockscomb, Cosmos, Godetia, Lobelia, Marigold, Marvel of Peru, Petunia, Pyrethrum, Ricinus, Salpiglossis, Salvia, Sensitive Plant, Stocks, Sweet William and Verbena. These may also be planted where they are to grow.

**FOR EDGING AND LOW BORDERS.**—Alyssum, Brachycome, Candytuft, Dusty Miller Centaureas, Daisy, Forget-Me-Not, Ice Plant, Lobelia, Portulaca, and Stocks.

**FOR CUT FLOWERS.**—Antirrhinum or Snapdragon, Alyssum, Aquilegia or Columbine, Aster, Calendula, Calliopsis, Candytuft, Carnation, Flowering Centaureas, Chrysanthemum, Cosmos, Dahlia, Shasta Daisy, Dianthus or Pinks, Escholtzia, Gaillardia, Gypsophila, Heliotrope, Marigold, Mignonette, Nasturtium, Rudbeckia, Salpiglossis, Scabiosa, Stokesia, Stocks, Miniature Sunflower, Sweet Sultan, Sweet William, Sweet Peas, and Zinnia.

**The Soil** best suited to flowers is a light rich loam, made as fine and smooth as possible. If heavy, mix with sand to lighten and make it friable. Many seeds are very small and require a fine seed-bed.

**HALF HARDY and TENDER FLOWERS** should not be sown or transplanted outside until the weather is settled and warm.

**HARD SHELLED SEEDS** like Canna, Moon Vines, Morning Glories should have a hole filed through the outer shell, or soaked in warm water 24 hours before planting.

To aid those not familiar with the uses to which flowers may be put, we have classified a few below. Where a variety is suitable for two uses, we have entered

**FOR TALL REDS, GROUPS AND BACK-GROUNDS.**—Amaranthus, Calliopsis, Canna, Canterbury Bells, Tall and Plumed Cockscomb, Cosmos, Dahlia, Digitalis, Hollyhock, Kochia or Burning Bush, Perennial Larkspur, African Marigold, Nicotiana, Oriental Poppy, Evening Primrose, Ricinus, Salvia, Salpiglossis, Scabiosa, Stokesia, Sunflower, Woolflower, and Zinnia.

**FOR POTS, PORCH BOXES AND BASKETS.**—Ageratum, Alyssum, Begonia, Dusty Miller Centaureas, Ice Plant, Lobelia, French Marigold, Tall and Dwarf Nasturtium, Petunia, Smilax, Stocks, Thunbergia, Vinca, and Verbena.

**FOR MOUNDS AND ROCKERIES.**—Alyssum, Candytuft, Coleus, Heliotrope, Ice Plant, Lobelia, Mimulus, Pansy, Portulaca, Smilax, Thunbergia, and Verbena.

In ordering specify the number and letter like No. 1a or No. 1p.

## All Following are Annuals

1. **Ageratum** (Floss Flower)—An excellent plant for edging or solid effects. A continuous bloomer. Imperial Dwarf Blue, Imperial Dwarf White or mixed. **Oz. 75c.**

2. **Anemone Coronaria**—Extra large double and semi-double flowering hybrids. The seed we are offering is grown from a very select strain of real large double and semi-double flowers and contains a large variety of bright showy colors. Anemones are easily grown from seed, bloom early, when good cut flowers are scarce, and are perfectly hardy. **Pkt. 10c.**

3. **Alyssum** (Carpet of Snow)—One of the most popular garden flowers, in bloom all season. Used for edging or in rockeries or vases. **Oz. 75c.**

4. **Amaranthus**—Brilliant foliaged annuals, growing from 3 to 5 feet high. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

4-1. **Combustion, Sunrise** (erroneously called Summer Poinsetta)—The most brilliant of this brilliant family. The foliage is bronzy-crimson, each branch terminating with a tuft of bright scarlet-carmine leaves. It has been used with fine effect in many of the public parks. Grows from 4 to 5 feet, according to the amount of moisture it obtains, and flowers during the latter part of August or early September, or in other words the top turns red at that time. It makes a very showy plant during the entire summer months, culminating with the top turning red which resembles a Poinsetta. Unquestionably this is the most attractive tall annual garden plant on the market and is suitable for planting along fences where a good color is required. The seed germinates well and grows very rapidly as do all Amaranthus. **Pkt. 25c, 5 for \$1.**

4-2. **Tricolor Splendens** (Joseph's Coat)—An improvement on the old sort of more brilliant coloring.

4-3. **Candatus** (Love-Lies-Bleeding)—Has drooping crimson flower spikes.

10c per packet unless otherwise noted.

**M.-S. SUPERB ASTERS** (a)—To our minds there is no other flower which combines so much beauty with grace and usefulness. In bloom from July till frost. To have early flowers sow indoors from March till May, otherwise sow outdoors. Asters require well-pulverized soil.

5. **AMERICAN BEAUTY ASTER**—The Queen of All Asters. Very new, far superior to Paeony and Branching varieties. In 1 colors: Azure Fairy, light blue; Carmine, Rose, Purple, Lavender; September Beauty, delicate flesh pink; White Beauty, giant white, and all choice mixed. **Oz. \$2.50.**



American Beauty Aster.

5a. **Sunshine Asters**—This pretty anemone-flowered variety is of great value either in beds, borders or for cutting; plants grow about 18 inches high, the dainty flowers held erect on good stems. The mixture offered contains a splendid range of delicate colors.

6. **Aster Ostrich Plumed**—Very beautiful. White rose, crimson, light blue, dark blue and choice mixed. **Oz. \$2.00.**

7. **Asters, Semple's Branching**—In five distinct colors: white, pink, crimson, lavender, dark blue, and all colors mixed. **Oz. \$1.75.**

8. **Aster, Queen of the Market**—Very early: White, pink, lavender, scarlet, dark blue and choice mixed. **Oz. \$1.50.**

9. **Balloon Vine (Love in a Puff)**—A rapid growing annual climber. Seed pods like miniature balloons.

10. **Balsam (Lady's Slipper)**—An old-fashioned flower. With plenty of room they will develop to immense plants with gorgeous flowers.

10-1. **Balsam Apple (Morordica)**—Handsome climbing annual, bearing ornamental orange colored fruit.

11. **Begonia**—Invaluable for bedding and pot culture; about one foot high, beautiful foliage pink, white and crimson mixed.

11-1. **Brachycome** (Swan River Daisy)—A desirable hardy annual, blooming profusely the greater part of the summer; small blue flowers resembling those of the Cineraria; 9 inches.

**CALENDULA** (Pot Marigold)—Free flowering showy annuals of easy culture, producing a fine effect in beds or mixed borders; valuable also for pot culture for Winter and Spring blooming; 1 foot.

12. **Ball's Strain**—An extra long stemmed deep golden yellow. **Oz. \$1.50.**





**Centaurea Cyanus**

13. **Lemon Queen**—Lemon-yellow. Oz. 50c.  
13-1. **Meteor**—Yellow striped orange. Oz. 50c.  
14. **Orange King**—Rich dark orange. Oz. 50c.  
15. **Mixed Colors**—Oz. 40c.  
15a. **California Poppy** (See Eschscholtzia).  
16. **Calliopsis**—A very showy annual in bloom from early summer till frost. Lemon, yellow with dark brown centers, rich crimson and mixed. Oz. 50c.  
17. **Canary Bird Vine**—One of the most charming annual climbers, bearing hundreds of pretty, fringed bright yellow flowers, which resemble a canary bird with expanded wings. Oz. 35c.  
18. **Candytuft**—Dwarf, profuse flowers, of easy culture; useful for bedding and borders. Lavender, pink, crimson, white and choice mixed. Oz. 40c.  
19. **Canna** (Indian Shot)—Although these are generally planted from roots, they may be grown from seeds. Oz. 30c.  
19a1. **Carnation** (Marguerite)—These are the most satisfactory of the annual pinks, and will bloom in four months after sowing the seed. The flowers are large, fragrant and are produced continuously. If slightly protected the first winter, they will revive the following spring and bloom during that whole season. Oz. \$1.00.

20. **Cardinal Climber** (Ipomea Quamoclit Hybrida)—One of the finest annual climbers known today. Very graceful and beautiful, growing rapidly, and in a warm, sunny location with good soil, it reaches often a height of 20 feet; it is densely clothed with palm-like, rich green leaves, bespangled with clusters of fiery scarlet, tubular spear-shaped flowers, measuring about 1 1/4 inches across.

21. **Centaurea** (Centaurea Cyanus, Cornflower)—Also known as Blue Bottle, Ragged Robin, Bachelor's Button. An old favorite garden annual. Double blue, purple, pink, white and mixed. Oz. 40c.

22. **Centaurea Imperialis**, or Sweet Sultan—Gigantic, beautiful, sweet-scented flowers borne on long stems. Mixed. Oz. \$1.00.

21a2. **Cleome Gigantea** (Giant Spider Flower)—The plants attain a height of 3 1/2 feet, well branched, each branch terminated by a large head of bright rosy-crimson flowers. It makes a striking subject for large beds or for interspersing in the shrubby border, and is used extensively in many of the public parks. Seed should be sown in the open ground as soon as the weather is warm and settled, and the plants given sufficient room to develop their full beauty. 1/4 oz. 25c.

23. **Centaurea**, White Leaved (Dusty Miller)—Grown for their silver foliage; fine for edging and hanging baskets. 1/4 oz. 30c.

23-1. **Cerastium** (Snow in Summer)—Dwarf, white-leaved edging plant; flowers white. Oz. 40c.

23-2. **Chrysanthemums** (Painted Daisies)—The single-flowering annual Chrysanthemums or Painted Daisies are showy and effective garden favorites, extensively grown for cut flowers. The following hardy annuals are summer-flowering border plants (growing about 2 feet high), bearing in profusion large daisy-like flowers on good stems, and quite distinct from the hardy perennial and autumn flowering varieties.

Double Yellow—1/4 oz. 25c.

Pearl Double White—1/4 oz. 25c.

Single Mixed (Painted Daisies)—Many colors. 1/4 oz. 20c.

Coronarium, Double Mixed—Yellow, white, etc. 1/4 oz. 20c.

24. **Cineraria**—One of the most ornamental and useful plants for conservatory and house decorations. Mixture, 60c and \$1.00.



**CARDINE CLIMBER**

24-1. **Clarkia**—One of the prettiest and showiest hardy annuals. The plants bloom so freely and have flowers of such various bright colors that a bed of them in full bloom is a beautiful sight. They are useful, too, for hanging baskets, for vases and as edging plants. Sow outdoors in early Spring and grow in partial shade. They bloom through midsummer to late autumn. Average height, 1 1/2 feet.

Castor Oil Bean—See Ricinus.

25. **Celosia Cristata** (Crested Cockscomb)—Very desirable annual of easy culture, large comb-like heads, excellent border plants, very good for pots. Mixed. Oz. \$1.00.

25-1. **Celosia Plumosa** (Feathered Cockscomb)—Very decorative plant for the garden. The feather plumes are excellent for cutting. Can also be cut and dried for winter use. Mixed colors. Oz. 60c.

26. **CHINESE WOOLFLOWER** (Celosia Childsi)—This is a unique form of the feathered Cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of flowers that look as if made out of some silky wool material. Not only effective in beds or borders, but highly interesting and valuable for cutting, as they can be dried and retain their bright color for weeks. We offer three colors and mixed. Crimson, very rich color. Canary yellow, dark pink and mixed. 10c each.

27. **Cobea Scandens** (Cup and Saucer Vine)—Well-known climber of rapid growth producing large bell-shaped blossoms; in sowing place the seeds edgewise, and merely cover with light soil.

27-1. **Coleus** (Large Leaved Hybrids)—Popular bedding plant with beautifully colored foliage; easily grown from seed if kept in warm temperature.

**Convolvulus**—Morning Glory.

28. **Cyclamen Seed**—Most beautiful winter and spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental.

Salmon pink, Rose, Bright pink, Finest red. Pkt. 50c; 100 seeds \$1.50.

29. **Cosmos** (Lady Lennox)—Giant flowering. An autumn flowering plant. A charming profuse bloomer. Crimson, pink, white and all colors mixed. Oz. 50c.

30. **Cosmos Klondyke**—Same as above, but a clear orange yellow. Pkt. 10c; oz. \$1.

31. **Early Summer - Flowering Cosmos**—Coming into flower in July, continuing until frost. Can be grown in the North where the seasons are too short for other strains. Dwarf, compact growth; 4 feet. Flowers beautiful and large; petals broad; crimson, pink, white and all colors mixed; profuse bloomer. Oz. 50c.

32. **Double-Crested Cosmos**—Extra early flowering. This is an entirely new class of cosmos, producing double-crested flowers of exceptional beauty. The grower does not claim that all plants have double flowers, but the fields show about 50 per cent; but the ones that do not show double are dreams of beauty. Pink, white, crimson and mixed.

33. **Cypress Vine** (Ipomae Quamoclit)—A very graceful annual climber, with feathery foliage and beautiful star-like flowers. Scarlet, white, mixed. Oz. 50c.

**DAHLIAS**—There is no more fascinating flower to raise from seed than the dahlia, for the result is a series of surprises. Seed should be started in the house from February till May and the young plants should not be set outdoors until danger from frost is past.

34. Single mixed, Double mixed, Cactus mixed.

**California Giants**—A selection from named varieties, grown by a celebrated producer in California. Pkt. contains 40 seeds, 50c.



**Double Crested Cosmos.**



**Helichrysum (Silvery Pink).**

35. **Dianthus Annual**—Colors: Crimson Single, Double White, Pink Beauty, Single and Double Mixed.

36. **Dimorphotheca (Golden Orange Daisy)**—One of the showiest garden plants of recent introduction; fairly compact, bushy plants are literally covered with brilliant orange-gold, daisy-like blooms, on fairly long stems during the entire season; excellent for cutting.  $\frac{1}{4}$  oz. 50c.

37. **Didiscus (Lace Flower)**—This pretty and interesting annual blooms most profusely from July till November; their exquisite pale lavender blossoms are excellent for cutting; plants grow about 18 inches high, and have as many as 50 flowers open at one time.

38. **Dolichos (Hyacinth Bean, or Texas Climber)**—Showy climber, making rapid growth. White, purple, mixed. Oz. 25c.

39. **Eschscholtzia (California Poppy)**—An elegant hardy annual with fine cut foliage and large poppy-like flowers; blooms from June till frost; fine for borders or large beds.

Choice Mixed. Oz. 30c.

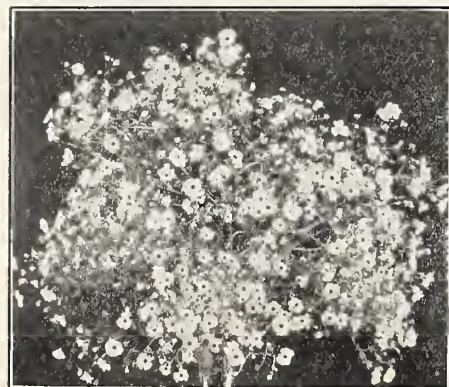
**Curantaea**—Rich orange. **Purple Glow.**

**Ballet Girl**—Carmine and white.

**Lovely**—Rose pink. **Orange Flame.**

**The Geisha**—Gold crimson. **Scarlet Beauty.**

Special: Pkt. 1 each of seven varieties, 50c.

**Gypsophila (Baby's Breath).**

40. **Euphorbia**—Plants with ornamental foliage, very showy and easily raised from seed. Known as "Snow on the Mountain." Oz. 60c.

**Forget-Me-Not**—See *Myosotis*. 64a.

**Four o'Clock**—See *Marvel of Peru*. 57a.

**Foxglove**—See *Digitalis*. 11p.

41. **Gaillardia (Blanket Flower)**—One of the best garden flowers, excellent for cutting. The large highly-colored, daisy-like flowers appear continually during the season. Oz. 60c.

42. **Godetia (Satin Flower)**—Beautiful and easily grown, producing a profusion of flowers, satiny texture.

43. **Gourds**—Dishcloth or Luffa, Nest Egg, Hercules' Club, Pear Shape, Mock Orange, Sugar Trough, Calabash, or Pipe Gourd, Thermos Bottle, Chinese Lantern, and a general mixture; rapid climbers. Each, oz. 40c. State kind wanted.

44. **Gypsophila (Baby's Breath)**—Pretty, free-flowering plants of easy culture; excellent for cutting to mix with other flowers. White and carmine. 2 feet. Oz. 50c.

**Helianthus**—See *Sunflower*. 87a1.

45. **Heliotrope**—A well known and highly prized plant on account of the delightful fragrance of the flower. Excellent for pots or beds. Pkt. 10c and 25c.

46. **Helichrysum (Strawflower)**—One of the best and most popular of the everlasting flowers. Valuable for cutting or decoration, either when fresh or dried.

Mixed Colors—Oz. 50c. Canary Yellow, Fireball, Golden Globe, Rose Carmine Shades, Salmon, White.

Special. 1 pkt. of each of seven varieties. 50c.

45a1. **Helichrysum (Silvery Pink)**—A soft pleasing shade of delicate silvery pink, something quite and heretofore unknown in *Helichrysms*. The blooms are quite large, two inches and more in diameter.

45a2. **Helianthus. Miniature.**

47. **Humulus (Japanese Hop)**—A rapid growing annual climber with luxuriant foliage; excellent for covering trellises and verandas. Oz. 50c.

48. **Hunnemannia (Giant Yellow Tulip Poppy)**—Sown outdoors in May it produces large quantities of giant yellow tulip-like flowers during end of August, continuing for the balance of the season; the foliage resembles *Eschscholtzia*; height, 2 feet.

49. **Single Hollyhock. Annual. Mixed.**

**Hyacinth Bean**—See *Dolichos*. 38.

**Ipomoea**—See *Moonflower*. 60a.

50. **Ice Plant**—Beautiful dwarf edging plants; flowers profusely in dry and sunny situations. Fine for pots. Covered with watery vesicles resembling pieces of ice.

51. **Jerusalem Cherry Solanum**—Indoor pot culture. Pkt. 25c.

52. **Kochia (Summer Cypress, or Mexican Fire Bush)**—An easily grown annual, which grows into a cypress-like hedge, with feathery green foliage; at the approach of Autumn the foliage turns to a deep red color; 2 to 3 feet. Oz. 40c.

**Lace Flower**—See *Didiscus*. 37.

53. **Lantana**—Most desirable bedding plant; seeds are best germinated in a greenhouse from January till March. Flowers resemble *Verbenas*; plants bloom all Summer. Mixed. Oz. 50c.

54. **Lupinus**—Very desirable garden plants, showy, excellent for cutting. Graceful spikes 2 feet long in various shades of white, blue, pink and yellow mixed. Oz. 60c.

55. **Larkspur (Hollyhock Strain, or Annual Delphinium)**—Splendid annuals of easy culture. When sown early in spring will produce blooming plants in July. Graceful, fern-like foliage and slender spikes. Fine for cutting and garden decorations. White, blue, pink and all colors mixed. Oz. 75c.

**Hyacinth Bean—Most Ornamental Climber.**

56. **Lobelia**—No garden is complete without an edging of blue lobelias. Very desirable for pots and hanging baskets. **Crystal Palace.**

**Marigold**—These are old favorite free flowering annuals with rich showy flowers blooming all summer. The tall African varieties are best for garden and cutting, while the dwarf French varieties are best suited for edging and bedding purposes. In colors and mixed.

57. **Marigold, French—Legion of Honor**, single brown and yellow; **Golden Ball**, double golden yellow, dark and all colors mixed. Pkt. 10c; oz. 60c.

58. **Striped Marigold, African—Lemon Queen, Orange Prince colors.** Oz. 75c.

58-1. **Marigold, African Mixed.** Oz. 25c.

**Larkspur Hollyhock Strain or Annual Delphinium.**



59. **Marvel of Peru** (Four o'Clock)—Bushy plants of easy culture, producing hundreds of flowers during the entire Summer; very showy; 2 feet. Oz. 30c.

60. **Mignonette**—Valuable for cutting on account of its fragrance. Sow in succession during the whole Summer; may also be forced in greenhouses during winter.

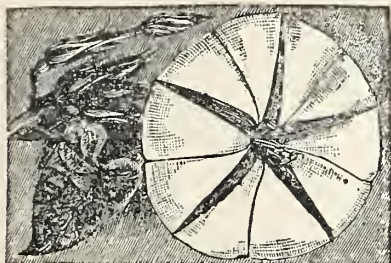
**Golden Machet**—Large reddish tinted, sweet scented flowers. Oz. 75c.

61. **Mimulus (Tigrinus)**—Showy, profuse flowering plants; fine for greenhouses or moist, shady situations; 1 ft.

**Momordica**—See Balsam Apple. 10-1.

62. **Moon Flower (Ipomoea Noctiflora)**—Climber. At night and during dull days the plants are covered with an abundance of large, pure white fragrant flowers. Oz. 75c.

63. **Imperial Japanese Morning Glories**—These are beyond question the handsomest of all Morning Glories. Of the easiest culture, can be sown in the open ground in a sunny situation when the weather has become warm and settled; they soon cover a large area, and even before flowering are decidedly interesting on account of the varied forms of the foliage and their markings. The flowers are of gigantic size and their colorings beyond description; the self or solid colors range from snow-white to black-purple, with all the possible inter-



Moon Flower.



Marvel of Peru.

Mignonette.

mediate shades; there is also an endless number having flowers spotted, marbled, striped, flaked, splashed, etc. Oz. 25c.

64. **Double-Flowering Morning Glories**—These beautiful climbing annuals are of very rapid and luxuriant growth; the flowers will come double, semi-double and a few, perhaps, single. The colors vary; there are various shades of blue, white spotted with red, white marbled with purple and lavender, crimson, pure white, etc. Mixed colors. Oz. \$1.00.

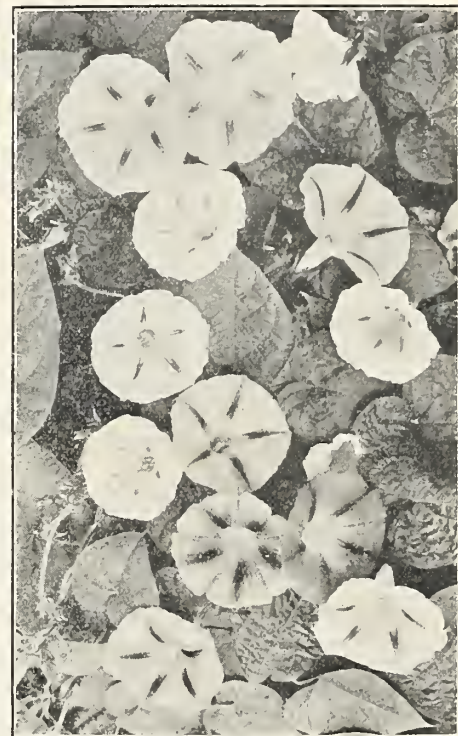
65. **Fancy Fringed Morning Glories**—The perfection of morning Glories. Immense flowers, often as big as saucers, all wavy, ruffled and fluted from throat to margin, like crumpled velvet. They are simply magnificent. Mixed colors. Oz. 50c.

**Mourning Bride**—See Scabiosa. 90c.

**Nasturtium**—See below.

66. **Nicotiana**—Splendid showy flowers on long terminal tubes. It is so fragrant that a small bed will perfume the surrounding atmosphere. Mixed colors and pure white and purple.

67. **Oenothera (Evening Primrose)**—Beautiful low-growing plant, producing large, silvery white rose and yellow flowers. They thrive best in a sunny position, but succeed in almost any situation or soil. Annual varieties, all colors; mixed.



Morning Glories.

## M.-S. GIANT FLOWERING NASTURTITIUMS

Nasturtiums are among the best known and most popular of hardy annuals, and within the past few years have been greatly improved in size as well as in colors and markings. Easily grown, and producing a great profusion of brightly colored flowers from within a few weeks after they are sown until they are killed by frost; they succeed best in rather light, well-drained soil.

### DWARF VARIETIES

1b. **Vesuvius (Salmon Rose)**—These have a neat, compact habit and attractive foliage, are not disturbed by insects, bloom most profusely the whole season.

2b. **Chameleon**—Produces various colors and markings on the same plant.

3b. **Empress of India**—Dark-leaved velvety dark scarlet flowers; select flowers.

4b. **Spotted King, or Ladybird**—Rich yellow, scarlet-spotted flowers, dark-leaved; splendid.

5b. **Queen of Tom Thumbs**—Variegated foliage; choicest mixture.

6b. **Golden Queen**—Yellow-leaved, with golden yellow flowers.

Prices on all the above varieties: Pkt. 10c; oz. 20c; ¼ lb. 60c.

**M.-S. Fancy Giant Flowering Mixed Dwarf**—Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.

Our Nasturtiums are noted for their size, variety and brilliancy.

### TALL VARIETIES

7b. **Dunnett's Orange.**

8b. **King Theodore.** Purple dark foliage.

9b. **Crimson.**

10b. **Pearl, Amber White.**

11b. **Jupiter Yellow.**

Prices on all the above varieties: 10c pkt., oz. 20c; ¼ lb. 60c.

**M.-S. Tall or Climbing Nasturtiums**—For covering trellises, fences, arbors, piazzas, or trailing from vases, urns, etc. Bloom from early Summer until frost. Pkt. 10c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.00.



M.-S. Giant Flowering Dwarf Nasturtiums



M.-S. Tall or Climbing Nasturtiums.





M.-S. Shirley Poppies.

## Poppies

A great advance has been made in recent years in the development of the Poppy which has brought it into deserved popularity, and it may be safely said that no other flower produces a more brilliant display of color during the blooming period. Annual Poppies should be sown as early in the Spring as possible where they are to remain, as they do not stand transplanting. If constant blossoms are desired, successive sowings should be made every two weeks.

68. "Mikado"—(Double the Striped Japanese Poppy)—This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum.

69. M.-S. Shirley Poppies—A bed of these Poppies produces a gorgeous effect in the garden; large flowers with brilliant colors.

70. American Flag—Beautiful variety; flowers very large and double, snow white, bordered with scarlet.



Double Portulaca.

70-1. Double Flowered Mixed Poppies—Immense double flowers, resembling a Peony; 2 feet. **Exquisite Mixed.**

71. American League—Orange scarlet.

Eldorado—Double pink. **Rose Pink.**

Special: 1 pkt. each of above four varieties, 30c.

Yellow Tulip Poppy—See Hunnemannia.

72. Portulaca Single (Mexican Rose)—Brilliant hardy annual, of easy culture; excellent for massing in beds or rock work; thriving best in a light, sandy soil and a sunny situation; flowers of the brightest colors. **Oz. 75c.**

73. Portulaca Double—Pkt. 10c; oz. \$2.00.

73-1. Poinsetta (Summer Poinsetta)—Makes attractive plants, 18 to 24 ins. high, resembling the regular poinsetta; does well in shade.

## Petunias

The Petunia is without a peer among annuals for effective Summer bedding or indoor culture. It is of easy culture early to blossom and continues throughout the Summer until the first killing frost. No other flower produces greater diversity of color, retaining its freshness for so long a period.

74. M.-S. PETUNIA MAMMOTH—Very fine, all colors mixed. **Oz. \$1.50.**

75. Snowball—Pure white. **Oz. \$1.75.**

76. Rosy Morn—Pink. **Oz. \$2.50.**

77. General Dodds—Blood red.

78. Howard's Star Petunia—A beautiful variety; produces a profusion of crimson-maroon flowers, each having a distinctive five-pointed white star. Single. **Oz. \$3.50.**



M.-S. De Luxe Bedding Petunia.

79. M.-S. De Luxe Bedding Petunia—Embracing only large flowering, gorgeous colored varieties. **Oz. \$2.50.**

80. Balcony Petunias—A splendid free flowering type for window or porch boxes, vases, etc.; also valuable for bedding, giving a display of flowers throughout the entire summer until frost; the flowers are large, averaging 3 inches across. **Blue, Crimson, Rose, White, and Mixed Colors.**

All of the above: Pkt. 15c; large pkt. 50c.

81. Phlox Drummondii—Easily grown from seed; makes a brilliant display as a Summer bedding plant. White, pink, crimson-white striped, pink with white eye, purple-white striped, yellow-white with pink eye, rose-white striped, or all colors mixed. When ordering, mention color wanted. **Oz. \$1.50.**

82. Rhodanthe—Very beautiful; delicate looking; everlasting. Much prized for Winter bouquets. Red and white and both colors mixed.

## Ricinus (Castor Oil Bean)

One of our best ornament-leaved annual plants, largely used for the center beds, being splendidly effective grouped with cannas, Caladiums and other tall plants.



Ricinus or Castor Oil Plant.

83. New Ricinus or Castor Oil Plant "Red Spire"—The shapely bushy plants attain a height of about 6 feet, with pretty palmate leaves of a bronzy green with prominent red ribs and veins, and producing through the summer and autumn numerous spikes of flowers or seed pods 9 to 18 inches long, of a brilliant rosy crimson; altogether a most effective semi-tropical plant, valuable alike for its foliage and flowers, and like other Ricinus, absolutely insect-proof. As single specimens or in beds on the lawn, for filling up a corner, or making a hedge or line, this is one of the most ornamental plants ever introduced. **Per pkt. 15c; 40c per oz.**

84. Zanzibariensis—Enormous leaves, varying in color from light green to purplish red. 12 feet. **Oz. 25c.**

85. Sanguines—Plants attain great dimensions—12 to 14 feet. Leaves a beautiful blood red. **Oz. 25c.**

86. M.-S. Ricinus Mixture—Appreciating fully the splendid effects that a fine array of these desirable foliage plants will make in your garden, we have composed a mixture that for elegant blending is unsurpassed. **Oz. 20c.**



Phlox Drummondii.





Salvia Scarlet Sage.

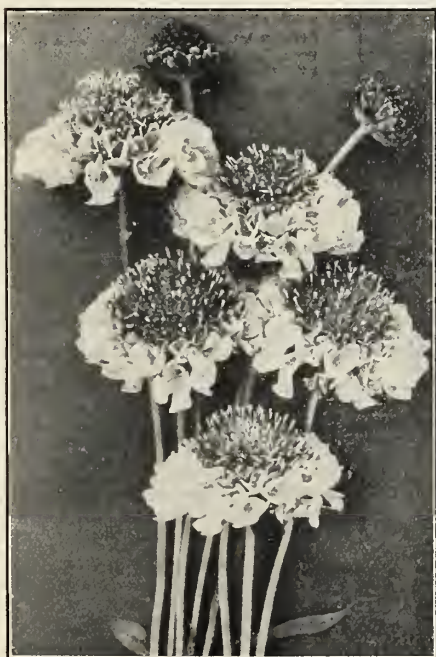
**SALVIA (a) (SCARLET SAGE)**

87. **Salvia Splendens**—This popular bedding plant is impossible to be replaced. There is nothing more effective in the Fall or mid-Summer than these bright scarlet flowers. Seed should be started either in the house from February till April or in hotbeds. Best bedder, beautiful scarlet flowers of immense size. **Oz. \$2.00.**

88. **Salvia Bonfire**—Compact bushy plants; two feet high, producing innumerable erect spikes of the most brilliant scarlet flowers. Height, 2½ to 3 feet. ¼ oz. **75c.**

89. **Salpiglossis (Painted Tongue)**—Very beautiful, hardy, annual plants, flowering freely from July to early Autumn. Rich soil should be provided, with plenty of space for plants to develop. Blue, rose, violet, red, purple, yellow, maroon and all colors mixed.

90. **Scabiosa (Mourning Bride, Pin-Cushion Flower, Egyptian Rose, etc.)**—Beautiful colored flowers, 2½ feet high; fine for cut flowers.



Scabiosa.

91. **Scarlet Runner**—Ornamental and useful climbing beans. **Oz. 15c.**

92. **Sensitive Plant (Mimosa)**—A curious and interesting half-hardy annual, with pinkish flowers; leaves close when touched; 1½ feet high.

92. **Smilax**—A well-known greenhouse climber, with small dark-green foliage; of great value in floral work. **Oz. 60c.**

93. **Statice**—These have become quite popular, the flowers being used extensively by many of the leading florists, the seeds are supplied in the dried flower heads which may be started indoors or sown in the open when the weather gets warm, in any case, in order to secure satisfactory germination the flower heads should be placed in the soil on their sides; 18 inches.

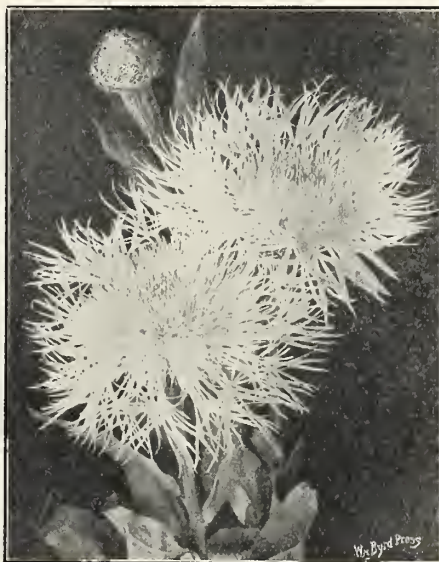
**Bonduelli.** Bright yellow.

**Sinuata Rosea Superba.** Bright rose.

**True Blue.** Rich blue.

**Alba.** White.

**All colors mixed.**



Sweet Sultan.

94. **Stock**—Half-hardy annual; fine for cutting, bedding or edging, also pot culture; average 1 to 1½ feet. Mixed colors, white, pink, yellow, crimson, light blue, dark blue, separate colors.

**Strawflower**—See Helichrysm.

**Sweet Sultan (Centaurea Moschatus)**—Hardy annual; flowers resemble "Bachelor's Buttons," fragrant flower on long stems. See 22.

## Sunflower

### SUNFLOWER (Helianthus)

Well known annuals, the small flowering sorts being useful for cutting; the tall varieties are valuable for backgrounds.

#### SMALL FLOWERED SORTS

95. **Cut-and-Come-Again**—Single golden yellow flowers, with petals twisted like a Cactus Dahlia. **Oz. 40c.**

96. **Dwarf Double (Globe of Gold)**—Yellow flowers; 3 feet. **Oz. 40c.**

97. **New Red**—Extra large flowers, some of which are rich chestnut red, others tipped with yellow. **Oz. 60c.**



Salpiglossis (Painted Tongue).

98. **Russian Mammoth**—Immense single yellow flowers on tall heavy stalks; 6 feet. **Oz. 15c.**

99. **Thunbergi (Black-Eyed Susan)**—Beautiful. Very ornamental climber.

100. **Verbena**—Dwarf bedding plants for a gorgeous display during the Summer months cannot be excelled, commencing to flower in July and continuing until frost. Our Mammoth Fancy Strain cannot be surpassed for profusion of bloom and beautiful colors and shades. M-S. Fancy White, Scarlet, Dark Blue, Light Blue, Scarlet-White Eye, Pink-White Eye, Violet-White Eye, and all colors mixed. When ordering state color wanted. **Oz. \$1.50.**

101. **Vinca (Madagascar Periwinkle)**—Dwarf bedding plants with deep green glossy foliage and bright single blossoms of striking beauty; sow early.

102. **Wild Flower Garden**—Fine mixture of old favorite. **Oz. 15c.**



Stocks.



## M.-S. CHOICE ZINNIAS

(YOUTH AND OLD AGE)

The Zinnia is one of the most brilliant, showy and satisfactory of annuals, and has long been a general favorite, and are now enjoying a wide popularity not only for garden decoration but also for cutting. The seed can be sown early in the hotbed or light window and transplanted, or sown later in the open ground. They come into flower early in the summer, and keep on blooming until frost.

### Double Dahlia-flowered Zinnias

This type, the latest development in Zinnias, bears flowers of mammoth size and in form like a perfect, decorative Dahlia. As the result of continued painstaking care and selection the size, form and coloring has been much improved and we now offer 7 beautiful and distinct colors as well as the mixture as follows:

**103. Crimson Monarch**—By far the largest and best of the red shades; plants very vigorous.

**104. Dream**—A fine, deep lavender turning to purple, a new, desirable shade in Zinnias.

**105. Exquisite**—One of the most pleasing in the collection; truly Dahlia-flowered as regards form and size; color, light rose, with deep rose center.

**106. Golden State**—A very rich orange yellow; yellow in the bud, turning to an attractive orange when in full bloom.

**107. Purple Prince**—A fine, deep purple, large and well formed.

**108. Oriole**—One of the most beautiful of its class; an immense orange and gold bi-color, changing slightly as it ages, but at all times worthy of the beautiful bird for which it was named.

**109. Polar Bear**—A very large pure white; the best white yet seen in Zinnias.

Price of the above seven varieties 20c per pkt.; large pkt. 35c each.

**110. Mixed Colors**—A well blended mixture, covering a wide range of colors and shades. Oz. \$2.00; pkt. 10c and 25c.

### SPECIAL OFFERS

Due to the popularity and the success with which Zinnia Seeds are grown into beautiful plants, we are offering seven 20c pkts. (all seven above varieties) in separate colors, each pkt. wrapped separately, for \$1.00; one 35c pkt. of each seven varieties, for \$2.00, sent postpaid.

Gentlemen:—

Your \$1.00 collection of Dahlia-Flowered Zinnias are the finest I have ever had.

CHAS. E. H. BROWN,  
Waynesboro, Pa.



M.-S.  
Dahlia-Flowered  
Zinnia.

### Large-flowering Double Zinnias

This we consider the best Zinnia for bedding, forming bushy, compact plants not over 2 feet high, and bearing large perfect double flowers in good clear distinct colors. The salmon-rose variety is especially effective and is largely used in the finest gardens in the country. Produces flowers of colossal size, specimens measuring from 5 to 6 inches across being not unusual. Plants are of extremely robust habit, attaining a height of about 3 feet and bearing on long strong stems numerous semi-globular, mostly very double flowers, all of the largest size, making them of great value in large beds, borders, etc.; grown under favorable conditions they remain in bloom from early summer to late autumn.

We offer six of the most popular colors, separately, as well as a splendid mixture of many colors, as follows:



A Field of Dahlia-Flowered Zinnias.

### WE LOVE TO HEAR FROM PLEASED GARDENERS

Geo. Tracey, gardener for Mr. F. N. Iglehart, tells us that our Named Spencer Sweet Peas are the finest he has ever seen.

**111. Golden Yellow.** Pkt. 10c; oz. 75c.

**112. Bright Scarlet.** Pkt. 10c; oz. 75c.

**113. White.** Pkt. 10c; oz. 75c.

**114. Salmon Rose.** Pkt. 10c; oz. 75c.

**115. Canary Yellow.** Pkt. 10c; oz. 75c.

**116. Dark Scarlet.** Pkt. 10c; oz. 75c.

**COLLECTION:** A packet each of the above colors, 50c.

**117. Giant Flowering Dwarf**—Mixed. All colors. Pkt. 10c; oz. 50c.

**117-1. Double Lilliput or Pompon Zinnias**—A very pretty type of compact habit not over 15 inches high, bearing in lavish profusion, small densely double flowers on long stems, held well above the foliage. Makes a good line or bed and are of more than usual value for cutting. Pkt. 10c; oz. \$1.00.

**118. Giant Flowering Tall**—Mixed. All colors. Pkt. 10c; oz. 50c.

**119. M.-S. Victory Zinnia**—This is a new introduction of Zinnia, forming quille petals. Choice mixed including all beautiful and several new colors. Pkt. 10c; oz. \$1.00.

**120. Curled and Crested Zinnia**—The petals of this beautiful strain are twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the brilliant shades characteristic of the Zinnia. Pkt. 10c; oz. 75c.

**121. M.-S. Picotee Type Zinnia**—This exquisite new Zinnia, the flowers of which are not quite as large as the double giants, are very effective in appearance, as the edges of the petals are all well marked with a distinct color to the body of the flower making them very attractive as bedders and cut flowers. Pkt. 10c; oz. \$1.00.



Giant Picotee  
Type Zinnia.



## M.-S. SELECT SWEET PEAS



Spencer Sweet Pea.

position fully exposed to the sunlight and air on both sides of row.  
Much depends upon the state of the weather as to when the seed may be sown out of doors, but they should be sown as early in the season as the ground can be worked, which is usually between the middle of March and the middle of April in the latitude of Baltimore. It is best to make a trench or furrow about 6 inches deep, in the bottom of which sow the seed. Cover with about an inch of soil, pressing it down firmly. As soon as they are above ground thin out to 2 to 4 inches apart; when planted too close they do not attain their full development. They should be staked up either with branches of brush or stout stakes on which wire netting has been fastened. These should be at least 4 feet high, and 5 feet would be better. It is just as well to do the staking at the time of sowing. During dry weather they should be watered thoroughly and frequently. The flowers should be cut as often as possible to prevent the plants from running to seed, which would stop them from continuing in bloom.

- 1c. Constance Hinton—Best White.
  - 2c. Blanche Ferry—Pink and White.
  - 3c. Majestic—Deep cream.
  - 4c. Blue Bird.
  - 5c. Hercules—Pure Pink.
  - 6c. King Edward—Pure Red.
  - 7c. Margaret Atlee—Rosy Buff.
  - 8c. Blue Picotee—White Blue Edge.
  - 9c. Austin Frederick Improved—Large pure lavender.
  - 10c. Othello Spencer—Deep Maroon.
  - 11c. Florence Nightingale—Bluish-Lavender.
  - 12c. Crimson King—Solid rich deep crimson.
  - 13c. Youth—White edged delicate soft rose pink.
- Price on all the above—Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

All Sweet Peas  
Postpaid.

### HOW TO GROW SWEET PEAS

Use 1 oz. of seed  
to 25 ft. of row.

The soil for Sweet Peas should be rich and deep. A good rich loam with plenty of well-rotted manure in it, is the ideal soil for raising good plants that will produce plenty of blooms of good substance. Considerable benefit has been noted from the use of Inoculating Culture. We can supply a special culture for Sweet Peas for 25 cts.—enough for any ordinary garden. They should be in a position fully exposed to the sunlight and air on both sides of row.

14c. Gleneagles—Immense pale blue lavender. Price, pkt. 25c; oz. 50c; ¼ lb. \$1.50.

15c. Mary Pickford—A beautiful dainty cream pink with just the faintest suffusion of salmon, making the color combination hard to surpass. The flowers are perfectly formed with both standards and wings decidedly waved. "Mary Pickford" is a sturdy grower, producing an abundance of large four-flowered sprays on long, stout stems. Price same as above.

### 16c. PINKIE (Novelty of 1928)

The most vigorous Rose Pink Pea ever introduced. Features—long stems, large flowers, bright color, long blooming season. Pkt. 25c and 50c; oz. \$1.00.

## M.-S. Winter Flower Spencer Sweet Peas

For indoor forcing. This seed has been grown from originator's stock and can be depended upon for excellent results.

17c. Snow Flake—Large and of the best waved Spencer form. The pure white flowers are borne in wonderful profusion on long stems.

18c. Early Harmony—Clear lavender throughout; of large size and well waved.

19c. Columbia—Pink standard, white wings.

20c. Yarrowa—A pleasing shade of bright rose pink with lighter wings.

21c. Early Meadow Lark—Large early cream.

22c. Glitters—The sensational orange scarlet, very bright.

23c. Zwolaneck's Rose—A very large and wavy, rich pink.

24. Early Vulcan—Red.

25. Early Blue Bird—Blue.

All the above, 10c per pkt.; ¼ oz. 30c; 1 oz. 60c.

## M.-S. Superb Spencer Mixture

A mixture that cannot be surpassed. Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50.

## M.-S. Gilt Edge Sweet Pea Mixture

This superb mixture is blended by us with extraordinary care from named varieties of the most improved large flowering type, including recent American and European novelties, as well as a great many new hybrids, as yet unnamed, insuring gorgeous color effect. Oz. 15c; ¼ lb. 30c; ½ lb. 50c; lb. 90c.

### HARDY SWEET PEAS

17p. Lathyrus Latifolius (Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white, pearl, and mixed colors. Pkt. 10c; oz. 75c.

## All Following Are Perennials

10c per pkt., unless otherwise noted.

**Perennials.** Those which live from year to year, such as Aquilegia, Delphinium, Foxglove, etc. Seed may be sown outdoors from June to September and transplanted late in fall into their permanent quarters, and protected during winter with a light litter of straw or leaves.

1p1. *Achillea* (Italica Dropmore)—3 to 5 feet high. Blooms May and June, rich gentian blue.

1p2. *Aconitum* (Monks Hood).

1p3. *Alyssum Yellow* (Basket of Gold).

2p1. *Arabis* (Rock Cress). Early spring flowering plants especially adapted for edging and rockery, 6 inches high, pure white blossom, flowers in May.

2p2. *Perennial Aster* (Michaelmas Daisy).

3p. *Antirrhinum* (Snapdragon)—A splendid plant for beds or borders and one of our choicest cut flowers. To have flowers early, sow indoors during February and March. Empress, crimson; Fawn, pink suffused yellow; Golden Queen, yellow; Purly, white; Silver Pink, pink self and all colors mixed. Oz. \$1.00.

4p. *Campanula Media* (Canterbury Bell). These are strictly biennials and require the following cultural directions: Sow from June 1st till September 1st; when strong enough transplant to a distance of six inches apart, after frost has set in protect

with leaves and straw. They flower the following June, after which they die. Their



Antirrhinum or Snapdragon.

colors are so pure that gorgeous effects can be achieved with them. Single blue, pink, white or mixed. Oz. 75c.

5p. Candytuft Perennial (*Iberis*)—White and lilac. ¼ oz. 80c.

5p1. *Chinese Lantern Plant*—An ornamental plant, forming dense bushes about 2 ft. high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting.

6p. *Coreopsis* (*Lanceolata Grandiflora*)—A hardy perennial bearing a profuse and long-continued succession of large, bold, golden yellow flowers during the whole summer months. Seed sown in March will flower the same season. Height 2½ feet.

7p. *Columbine*, or *Aquilegia*—A most desirable border plant. It forms large clumps, blooms early, long and abundantly, is useful for cutting and elegant in habit. Sow seed in the open ground in Spring, preferably where the plants are to grow, and thin to about a foot apart. Sow in the Fall for flowering the following season. They thrive well under ordinary garden culture. Few hardy perennials are so easily grown from seed, and will give such unalloyed satisfaction. Pink, yellow, blue, scarlet and yellow and mixed. Oz. 90c.





Garden Pinks.

**8p1. Daisy, English Double** (Bellis Perennials)—Seed should be sown from June 1st till September, transplanted in the Fall, and they will flower the following Spring. If sown in the Spring they will flower in the Autumn; 4 inches; white, pink, crimson and mixed.

**8p2. Shasta Daisy**—Very large; white single flowers on long stems.

**9p. Delphinium** (Hardy Perennial Larkspur)—Highly prepossessing plants of stately appearance; of easiest culture, they are readily the most popular of all hardy plants. Their main season of bloom is in June, but if the flowerspike is cut back promptly it will branch and flower all through Fall. **Formosum:** Deep Blue. **Belladonna:** Light Blue. **Oz. \$3.50. White,** **oz. \$1.25. Deep Scarlet. Oz. \$2.00. M.-S. Giant: Mixed. \$1.00 per oz.**

**10p. Garden Pinks** (Dianthus Plumarius)—These varieties are well adapted for beds and borders; delightful, refreshing, spicy odor; should be in every garden where cut flowers are wanted, and make a fine edging to a hardy border. Single and Double mixed.  $\frac{1}{4}$  oz. 40c each; **pkt. 10c.**

**11p. Digitalis** (Foxglove)—Handsome ornamental hardy plants of stately growth, succeeding almost anywhere. Produces long spikes of beautiful, tubular-shaped flowers; 4 to 5 feet. Purple, rose, white, spotted mixed and all colors mixed. **Oz. \$1.00.**

**12p1. Flax** (Linum)—Bright blue flowers. 24 inches.

**12p2. Gaillardia**—If sown early will bloom first season. Mixed colors. **Oz. 9c.**

**13p1. Geum**—Double flowers of intense orange scarlet, 2 feet high, for sunny location.

**13p2. Gypsophila**—Paniculata alba. White. **Oz. 75c.**

**14p. Hibiscus** (Mallow)—These bear very showy flowers, are easily grown and should find a place in every garden. Mixed colors, white, pink and red; and Golden yellow, Sunset; height, 4 feet.

**15p1. Chater's Improved Double Hollyhock** in separate colors: Rose white, salmon, maroon, yellow, Newport pink, crimson and mixed colors. **Oz. \$1.25.**

**15p2. Hollyhock Single**—Choice colors mixed. **Oz. \$1.25.**

**16p1. Helopsis** (Orange Sunflower) (Pitcheriana)—A handsome hardy perennial; producing an abundance of deep orange yellow flowers the entire Summer; excellent for cutting; 3 to 4 feet.

**16p2. Helianthus** (Dwarf Sunflower)—Early flowering; yellow.

**16p3. Kudzu Vine** (Puevaria Thunbergiana)—The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome purple flowers. The vine is extremely rapid and dense in growth, perfectly hardy, increasing in size and beauty year after year; fine for arbors, verandas, etc.

**17p. Lathyrus Latifolius** (Perennial Sweet Pea)—Showy hardy climber, fine for covering walls and stumps. Free flowering. Pink, red, white, pearl and mixed colors. **Oz. 60c.**

**17p1. Lythrum** (Loose-Strife) **Roseum Superbum**—A fine hardy perennial, producing spikes of rosy-pink flowers, from July to September. 3 feet.

**Lavender Vera**. Fragrant blue flowers.

**17p2. Myosotis** (Forget-Me-Not)—Beautiful, half hardy perennials, succeeding best in moist shady situations. Sown in the spring they will flower in the fall; if wanted for early spring flowering seed should be sown in frames in July or August.

**Alpestris Victoria**—Of bushy habit, bearing large bright blue flowers; very fine; 6 inches.

**18p1. Lupinus**—Hardy perennials of easy culture, with graceful spikes of pea-shaped flowers; May and June; 2 to 3 feet. Blue, Pink, White and mixed colors.

**18p2. Passion Flower** (Southern Beauty). Climber mixed. Called "Passion Flower" on account of a resemblance in the flower to the appearance presented at Calvary.

## M.-S. Perfect Pansies

Strictly considered this a biennial, but the fact that it flowers the first season from seed recommends it for an annual. There are actually three seasons in which Pansies can be planted. If started in the house from February till April Pansies will begin to bloom from July on; sown outdoors in May beautiful flowers are produced in the Fall; sown in frames during July and August and transplanting later gives us the main crop of flowers the following spring. Pansies thrive best in moist semi-shade situations.

**19p1. Triumph of Giants**—Flowers of great brilliancy and richness of coloring, including many new and rare shades. **Pkt. 25c; 5 pkts. \$1.00; oz. \$6.00.**

**19p2. Masterpiece** (Frisled Pansy)—Flowers beautifully curled or waved. Exquisite colors. **Pkt. 25c; 5 pkts. \$1.00.**

**20p1. Tufted Pansies or Violas**—While the flowers of the Tufted Pansies are not so large as the regular type, yet they bloom so freely that they are superior to pansies where effect is wanted, the colors being particularly clear and distinct; they also bloom for a longer time. Seed sown in April produces flowering plants by June, and from then on until frost they are a sheet of bloom. All colors Mixed and Blue. **Oz. \$2.50.**

**20p2. M.-S. GIANT EXHIBITION PANSIES**—A blending of our own, containing only the very choicest the specialists in Europe have to offer; it can be relied upon to produce flowers of immense size, very heavy texture and of the most brilliant colors. **Per oz. \$3.00.**

**21p. M.-S. GIANT PANSIES**—In separate colors.

Mention number and variety wanted when ordering.

**Lord Beaconfield**—Purple, violet and white.

**Snow Queen**—Pure white.

**Emperor William**—Indigo blue black, blotched.

**Canary Bird**—Pure yellow.

**King of the Blacks**—Lustrous jet black.

**Lord Baltimore**—Yellow maroon blotches.

**May Queen**—White with violet blotches.

All the above: **\$2.50 per oz.; 10c pkt.**

**22p1. Orientale Poppies**—Enormous flowers of deep, flashing scarlet, entirely hardy anywhere, and mixed; 3 feet.

**22p2. Poppy, Salmon Queen; Pink Shades.**

**22p3. Iceland Poppy**—These dwarf, bright yellow Poppies form one of the chief attractions of the garden through several months. They are most beautiful when grown in masses from seed sown every year; 1 foot.

**23p. Primula Veris Mixed** (Cowslip)—Hardy primroses are among the most prized of our Spring blooming plants, 1 to  $\frac{1}{2}$  feet high. Mixed colors.

**23p1. Primula Chinensis** (Fringed Chinese Primrose)—**Pkgs. 60c and \$1.00.**

**24p1. Pyrethrum**—Handsome hardy perennial plants for the herbaceous border; flowers showy and excellent for cutting. Double White and Single Mixed.

**25p. Phlox Hardy**—For a gorgeous show these are the most satisfactory of all perennial plants. 2 to 3 feet high in all bright colors; seed sown late in Fall will germinate in the Spring; Mixed colors only. **Oz. \$3.00.**

**26p. Rudbeckia-Newmani**—One of the finest of autumn-flowering perennials, bearing large flowers. Bright orange-yellow petals surrounding a large black cone.

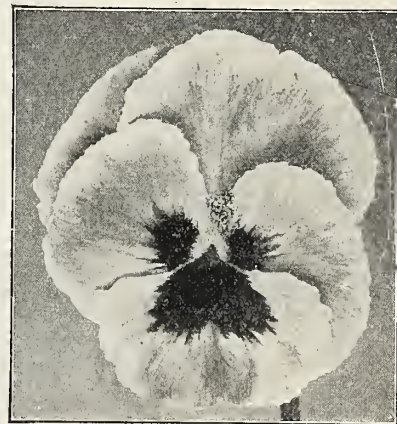
**27p. Statice Latifolia** (Sea Lavender)—Purplish-blue flowers. 2 feet. Splendid hardy perennials, either for the border or rockery, producing all summer panicles of minute flowers, which can be dried and used for winter bouquets.

**27p1. Scabiosa Caucasica** (Blue Bonnet)—One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; color soft lavender-blue; 3 feet.

**28p1. Stokesia** (Cornflower Aster)—Blooms all Summer. Large attractive flowers, resembling asters; fine for cut flowers; two feet high.

**28p2. Sweet Rocket** (Hesperis)—Excellent for naturalizing among shrubbery or for planting in a permanent border. Fragrant white and purple flowers; 2 to 3 feet. Mixed.

**29p. Sweet William** (Dianthus Barbatus)—This is one of the finest of our hardy garden plants; of easy culture, thriving in any good garden soil and lasting for years. The plants grow about  $1\frac{1}{2}$  feet high, and form fine clumps; produces fine effects in beds and shrubbery. Single crimson, single red with white eye, single velvety maroon, single white and choicest double mixed, single mixed; all colors. **Oz. 75c.**



Triumph of Giants Pansies.

**30p1. Tritoma** (Pfitzeri)—Red Hot Poker, Flame Flower, or Torch Lily.

**30p2. Violet**—Deservedly much in demand because of their profusion of bloom and delicate odor. White and Single Blue.

**30p3. Veronica Spicata**—Blue flowers,  $1\frac{1}{2}$  feet high, June and July.

**31p. WALLFLOWER**—Favorite sweet-scented flowers of fine colors. Splendid for cutting and useful as Spring bedders.

**Paris Extra Early**—A beautiful single variety, which may be treated as an annual, flowering through the summer from seed sown in spring.  $\frac{1}{4}$  oz. 25c.

**Goliath**—A splendid single variety; flowers of a rich, shining red, with a black velvety sheen.

**Single Mixed**—All colors.  $\frac{1}{4}$  oz. 20c; **oz. 60c.**

**Double-flowering Finest Mixed.**

Our flower seeds have a reputation for their superior quality and for the excellent results obtained by sowing them. It is our constant endeavor to supply only such varieties and strains that will give the best of satisfaction.



# M. - S. SUPERFINE GLADIOLUS

OUR BULBS ARE  
1½ INS. AND UP.

If to be sent by Parcel Post, add postage at 25c per 100.  
Single bulbs and dozens we deliver free in United States.

**Culture**—What a wonderful stride the Gladiolus has made during recent years. Its popularity today is exceeded by few other flowers, and it has by no means reached its limit. And there are good reasons for this popularity. Failure with it has never been known. Gladiolus will grow in any open position, where there is a fair amount of sun, and bloom well. They are not only showy in the garden, but, when cut with the first flower open will last for 10 days in the house. The newer colorings defy the choicest orchids. Plant bulbs 3 to 4 inches deep, 6 inches apart and stake when 2 feet high. Flowers appear from early July until late in the fall.

The following four priced 25c each;  
\$2.50 dozen; 6 at dozen rate.

**Captain Boynton**—Deep lavender. Large flowers on tall stems, royal and stately.

**Souvenir**—Pure Canary yellow, early flowering, graceful and artistic.

**Taro**—The deep rose pink of the American Beauty Rose, ruffled flower of stately form.

**Tycko Zang**—Very large flower of a Salmon Pink shade, unusual and attractive.

The following six priced 20c each; \$2.00 doz.; 6 at doz. rate.

**Flaming Sword**—A recent introduction from Holland. Deep blood red, early flowering.

**Golden Measure**—Fine golden yellow; very large flowers.

**Mrs. Fred C. Peters**—Gorgeously light blue with deeper markings, many flowers open on long stems.

**Mr. Mark**—A very pleasing shade of light blue with darker blotches; very rare.

**Muriel**—An unusual fine lavender.

**Persia**—Shiny, velvety dark maroon, almost black.

The following seven 15c ea.; \$1.40 doz.; \$9.00 per 100; 50 at 100 rate.

**Anna Eberius**—A deep rich purple; very unusual and particularly attractive.

**Crimson Glow**—A splendid dark red.

**Louise**—Exquisite shade of clear lavender, growing brighter toward the center.

**L'Immaculee**—Pure white, long spikes with many flowers open at one time; very early.

**Los Angeles**—Choice salmon pink; large spike with many flowers; tall stem.

**Virginia**—Wide open flowers of a bright, cheery Christmas Red.

**War**—Deep blood red. Very tall and conspicuous. A fine late variety.

The following six 10c each; \$1.00 doz; \$7.00 per 100; 50 at 100 rate.

**Alice Tiplady**—Large flowers of beautiful orange saffron color. Early.

**Evelyn Kirtland**—Beautiful shade rosy-pink, darker at the edges, with brilliant scarlet blotches on lower petals. Tall spike, extra form and color.

**Herada**—Blooms of immense size on tall, straight spikes; the color is pure mauve, glistening and clear with deeper marking in throat. An unusual color and very effective as a cut flower.

**Mrs. Dr. Norton**—Very large flowers well set on a tall and graceful spike with 4 to 8 flowers in bloom at one time. Color, white with edges of petals suffused with soft La France pink; a very choice variety.

**Prince of Wales**—Large flowers of salmon pink; very early blooming.

**Wilbrink**—Pale vivid pink with creamy blotch on lower petal; very early and a fine cutflower.

The following eight 60c doz.; \$4.00 per 100; 50 at 100 rate.

**America**—Delicate lavender-pink; flower large size. Very popular.

**Le Marechal Foch**—Beautiful shade of light pink, flowers very large; one of the earliest.

**Mrs. Francis King**—Light scarlet, lower petals splashed deeper red. Tall spikes; very popular.

**Mrs. Frank Pendleton, Jr.**—The color is a delicately flushed salmon pink extending to the reverse side of the petal. The blooms are wide open and are arranged individually on very wiry stems. Each flower is doubly enhanced by a rich maroon blotch on the three lower petals.

**Panama**—Beautiful pink. Distinctive and popular.

**Peace**—Flowers are large of good form, correctly placed on heavy straight spike. Beautiful white with lilac feathering on lower petals.

**Schwaben**—Delicate pale yellow, dark blotch in center. Very popular.

**M.-S. Giant Flowering Mixed Gladiolus**, composed of all named varieties in gorgeous blending. 5c each; 50c doz.; \$3.50 per 100; 50 at 100 rate.



Type of M.-S. Giant-Flowering Mixed Gladiolus.



## TREAT GLADIOLUS AND ALL OTHER BULBS WITH SEMESAN

Prevent scab, hard rot and similar surface-borne diseases from destroying your corns by soaking them in 2 per cent liquid Semesan for seven hours. Destroys diseases, increases sprouting and size of flowers and improves brilliance of color. See page 51 for prices.

## Begonias

(Tuberous Rooted)

Enormous wax-like flowers appear uninterruptedly from June until frost. Start indoors in March, and transfer outdoors about May 1st.

A most charming plant with beautiful foliage. We are offering single and double. Colors red, white, yellow, pink, salmon and mixed colors. Price 25c each; \$2.50 per dozen, postpaid.

## Montbretias

These are one of the brightest and most attractive of summer flowering bulbs and should be planted extensively. The bulbs should be planted out in the early spring, in clumps of a dozen or more, placing the bulbs 3 to 6 inches apart. They should be protected during the winter with a heavy covering of leaves or litter.

**Star of Fire**. Bright vermillion, center yellow.

**George Davison**. Lovely pale orange.

**King Edmund**. Rich golden with brown marking in throat.

All above 10c each, \$1.00 dozen, \$6.00 per 100, postpaid.

Gentlemen:

The tuberous rooted Begonias you sent me produced the most beautiful flowers imaginable.

MRS. EDW. E. SCOTT,

Cockeysville, Md.



# M. - S. SUPERB SURE-BLOOMING DAHLIAS

## Exhibition Dahlias Ready for Delivery After April 15th

### Cultural Directions

Spade or plow the ground to a depth of about 10 inches. As a fertilizer, use sheep manure and quick-acting bone meal, which should be well mixed with the soil. When the soil is properly prepared, dig a hole 6 inches deep, in which to plant the Dahlias. The bulbs should be laid down flat and covered to a depth of 4 inches. Every Dahlia should have from 2½ to 3 feet space and at least 4 feet between the rows.

As soon as the plants are a foot above the ground they should be tied to a stake.

Keep the ground well cultivated and free from weeds. An application of sheep manure about every two weeks will be of great benefit.

Never leave more than one shoot to a plant. You will have better plants and larger flowers if you will allow only one main shoot to a plant.

### M.-S. SPECIAL DAHLIAS

#### Decorative

**DARLENE (Alexander)**—Delicate new decorative seedling. An exquisite shade of live shell-pink with a dainty blending of white at center. The foliage is a heavy, deep green, a perfect contrast with the pink-and-white blossoms. Unquestionably the finest pink-and-white decorative dahlia to date. 50c.

**DR. TEVIS**—Beautiful shade of salmon-rose, suffused with old gold. 50c.

**EVENTIDE**—A beautiful flesh color shading to white, giving the appearance of white when in flower. Very free. 25c.

**ELEANOR GRANT**—Large flowers borne on extra long stems, the outer petals of light cameo pink, while the center is sea foam green. A fine Dahlia. 50c.

**F. L. MILLIS**—Yellow, base shading to orange. 50c.

**JANE SELBY**—Exceptionally large flower of a delicate mauve pink. Great substance and good formation, on strong stems well above the foliage. A prize-winner. 50c.

**MILLIONAIRE**—Most delicate lavender with faint pink cast overshadowing it, the whole having a blending of white. One of the best known lavender pink dahlias. Exhibition variety but not recommended for cut-flowers. 50c.

**MRS. CARL SALBACH**—A sensational decorative dahlia of great size. Large bloom of lavender pink. One of the best—always seen on the exhibition table. 50c.

**MRS. I. de ver WARNER**—Deep mauve-pink. One of the very best dahlias grown. Long stiff stems and excellent for cut-flowers. 50c.

**ORA DOW**—A beautiful velvety maroon, effectively tipped white. 25c.

**PRIDE OF CALIFORNIA**—Called the "American Beauty" dahlia. Winner of gold and silver medals. Huge crimson red flowers produced on long straight stems. 50c.

**ROSA NELL**—The color is a clear bright rose, and the flowers are very large, and is one of the best shaped decorative dahlias grown. Good stem and habits. 50c.

**SNOWDRIFT**—A giant, clear white. The flower has good depth with broad waxy petals of the true decorative type. 50c.

**THE BASHFUL GIANT**—This is one of the largest dahlias ever produced. It is also of great merit for its beautiful color, being an apricot with golden shadings. Flowers are produced on stout stems. 75c.

**WILHELM MILLER**—Very brilliant purple. This is a fine variety. 25c.

### M.-S. EXHIBITION DAHLIAS

#### Decorative

**CHAMPAGNE**—This was one of the rare novelties of last season; size large, color fine-dull champagne, varying to chamois. Large massive stem. \$1.00.

**COPPER KING**—This is one of the best dahlias, a flower of large size, held erect on straight stems. The tubular petals are of copper and yellow with distinct reverse of light red. \$1.00.

**ELITE GLORY**—W. W. Kennedy's & Sons sensational creation. A monstrous flower and a consistent prize-winner. Brilliant red without any apparent purple or maroon shading. Heavy canelike stems. \$2.00.

**ELSIE DANIELS**—Pale violet orchid shade blending to white in center, a beautiful combination. \$1.00.

**ELLINOOR VANDEVEER**—Jessie Seal's wonderful new seedling. The beautiful blooms of deep rose pink are produced in abundance until frost. Fine strong stems. \$1.00.

**FORDHOOK VICTORY**—The construction of this beautiful Tyrian-pink decorative makes this variety one of the outstanding novelties of recent introduction. Strong stems. \$2.00.



Cactus Variety—Washington City.

**JERSEY'S BEACON**—Another of Mr. Waite's wonderful creations. A decided novelty of merit. Chinese scarlet, with paler reverse. \$1.00.

**JERSEY'S BEAUTY**—This is certainly a beauty and should be in every garden on account of its wonderful color and stem—in a class by itself—a beautiful pink. \$1.00.

**JOHN LEWIS CHILDS**—Best fancy type. Yellow, suffused, splashed and striped with brilliant scarlet. \$1.00.

**KEMP'S VIOLET WONDER**—The best violet colored dahlia to date. The flower is as nearly perfect as possible, frequently attaining a diameter of 10 inches and over, are borne on stiff stems 10 to 14 inches above the foliage. A stronger vigorous grower, with wide spreading habit. Foliage bright green, healthy. \$6.00.

**LA RODA**—Silvery rose pink. Large and well formed flowers held erect on strong stems. \$5.00.

**MARGARET WOODROW WILSON**—A large decorative with broad petals well placed, terminating in points. Opalescent pink. Flowers are held well out of the dark green foliage on perfect stems. Awarded certificate of merit by the Dahlia Society of New Jersey 1925. \$1.50.

**MR. CROWLEY**—The exquisite color of this dahlia is most remarkable—a glowing shade of salmon pink—base of petals yellow. Medium size flowers. \$1.00.

**MYRA VALENTINE**—Golden bronze, or a distinct copper color. Very large bloom on fine long stem. \$1.00.

**NAZARENO**—A new seedling originated by W. F. Jost. In color it is a true purple-rare in dahlias. Large blooms on fine stems. \$1.00.

**NOTTINGHAM BEAUTY**—A very striking bi-colored dahlia, a distinctive beauty. A combination of true purple with white tipped petals. The flowers are only of medium size, but have good depth. A strong robust and prolific bloomer. If you are fond of bi-colored dahlias, this is one you should have in your collection. \$2.00.

**PRIDE OF STRATFORD**—Color of this beautiful dahlia is cadmium orange, shading to light orange yellow at the base of the petals, reverse rose doree. Very large flowers of splendid form, held erect on fine stiff stems. \$2.00.

**ROBERT SCOTT**—A very beautiful apricot yellow, with rose shading extra large, bold flower, also has great depth, excellent stems and a fine bloomer. \$1.00.

**ROMAN EAGLE**—Large exhibition decorative, of a flaming, brilliant, burnished copper color. One of the most admired dahlias at the recent large shows. A variety of real merit. \$1.00.



## M.-S. EXHIBITION DAHLIAS—Continued

**THE LEMONADE**—The color of this fine new seedling is a pleasing primrose yellow. Blooms grow to immense size and are held erect on long, stiff stems. The plants are vigorous and flowers hold their centre until frost. Good keeper when cut. \$2.00.

**TRENTONIAN**—A giant decorative that appeals to all. The color is that of an Indian's skin, a wonderful blending of old gold, amber and coppery bronze. Petals are broad and well placed. Highly recommended for garden or exhibition. \$1.00.

**WATCHUNG SUNRISE**—This beautiful dahlia was originated by Mr. James Smith and is a worthy acquisition to any garden. Plant is a robust grower and holds its golden blooms, which are suffused pink on strong rigid stems, high above the foliage. \$5.00.

**WATCHUNG SUNSET**—This is another introduction of Mr. James Smith and is a worthy acquisition to any collection, large or small. The coloring of this large, exquisite dahlia is lavender pink. Flowers are carried erect on strong stems. Good cut flower. \$5.00.

**YELLOW PRINCESS**—Originated by Mr. G. W. Fraser. A sensation wherever shown. Won A.D.S. gold medal ribbon at the 1927 New York show for best undissected seedling that had been certified at the Storrs Trial Gardens. Immense flowers of pure yellow, held on best of stems. \$5.00.



Hybrid Cactus—Mariposa.

## M.-S. SPECIAL DAHLIAS Cactus and Hybrid Cactus

**BRIDE'S BOUQUET (Hybrid)**—An ideal white cactus and profuse bloomer, extra long stems, and a Dahlia that stands up well when cut. 50c.

**CALIFORNIA ENCHANTRESS (Hybrid)**—A new California creation. Flowers of very delicate blush; buds open a creamy-white, changing to a soft rosy tint as the flowers develop. Flowers produced on long, stiff stems in abundance, making it a good cut-flower variety. 50c.

**ETENDARD DE LYON (Hybrid)**—The color is a trifle darker than rhodamine-purple, described by some as carmine-rose. The flower is held on fine, stiff stems. 50c.

**MARGARET E. MILLIS (Hybrid) (Millis)**—A wonderful bloomer on good stems. The coloring is amaranth-pink combined with white in a streaked effect. The flowers are very deep and large with petals inclined to twist. This variety shows up in the field in a manner that makes it very conspicuous and attractive and we can recommend it highly. \$1.00.

**MRS. ETHEL F. T. SMITH**—This is a white shading to a greenish lemon tint in the center. A monster dahlia on a strong stem. Blooms freely and is a splendid exhibition variety. 75c.

**MRS. C. B. BENEDICT (Hybrid)**—A new seedling, 8 to 10 inches across. A clear light yellow; one of the largest grown; a wonderful flower. \$1.00.

**MRS. C. H. BRECK (Hybrid)**—A new cactus of exceptional merit. Color, creamy-yellow passing to various shades of rose-pink. 50c.

**SUCCESS**—Clear yellow with long pointed petals; an early, free and continuous bloomer on long stems. 35c.

**TUSTU**—The color is perfectly gorgeous—a beautiful velvety maroon. The petals are very long, tightly quilled. We can highly recommend this variety. 35c.

**WASHINGTON CITY**—A gigantic pure white, star-like flower. It has a long stem and holds its flower erect. 50c.

## M.-S. EXHIBITION DAHLIAS

### Cactus and Hybrid Cactus

**FARNCOTT**—A new creation introduced by Professor Fraser of Connecticut. This must be seen to be appreciated. Color is pure purple, tipped white. A very fine stem and good keeper. \$1.00.

**JEAN HARE (Hybrid)**—A distinctive exhibition hybrid of peculiar formation and unusual charm. Flower opens golden yellow and as it matures becomes an apricot buff and the outer row of petals a golden bronze. One of the most attractive autumn colored dahlias, on account of its great size and beauty. \$5.00.

**KING SOLOMON (Hybrid)**—A beautiful orange buff hybrid, with an iridescent sheen on the twirled and twisted petals, forming an exceptionally beautiful dahlia. Has been awarded many prizes. A distinct novelty of merit. \$1.50.

**MARIPOSA (Hybrid)**—A perfectly formed hybrid, composed of long, narrow incurved petals which turn and twist in a charming manner; color a beautiful pink shade, produced on long, stiff stems. 75c.

**MISS AMERICA (Hybrid)**—One of the best new novelties. Rich orange buff, blending towards center lemon chrome. Petals are wavy, twisted and curled, colored on reverse side, light jasper red. Very large with good keeping qualities. \$1.00.

**ROLLO BOY (Hybrid)**—This large hybrid is carried erect on perfectly strong stems. Color is a delicate shade of amber shading to old gold. A vigorous grower. \$1.00.

### Peony-Flowered Dahlias

**CAECILIA**—A magnificent flower of great individuality; one that will give perfect satisfaction. A wonderfully large creamy-white flower. 25c.

**IMPROVED GERMANIA**—A rich deep scarlet-red, very brilliant and showy, producing their blossoms early and abundantly. 25c.

**LATONA**—An unusual blending of orange, buff and yellow. Flowers are nearly full to the center, and produced freely, upon good stems. 25c.

**MRS. BOWEN TUFTS**—Deep rosy-purple blossoms, which are produced well above the foliage upon long, graceful stems. 25c.

**POLAR STAR**—Large pure white, of fine form on long stems. 50c.

### Ball or Show Dahlias

**IMPERIAL**—Deep purplish-maroon. 25c.

**MAUDE ADAMS**—Ideal new show dahlia. The color is a pure snowy white, very effectively overlaid clear delicate pink. 25c.

**MISS HELEN HOLLIS**—Gigantic scarlet show dahlia. Deep scarlet. Blossoms are on long, stiff stems, well above foliage. 25c.

**PRINCESS VICTORIA**—Pure canary yellow. Long stems, perfect form and free bloomer. 25c.

**ROSE**—Color, an exceptionally deep rose shade. Flowers carried erect upon extra long stems. Exceedingly free-flowering. 25c.

### Single Dahlias

**ACHIEVEMENT (Collarette)**—The flower is a clear, rich velvety maroon; collarette, a beautiful snowy white, very daintily overlaid with a delicate shade of pinkish-crimson. 25c.

**AMI CACHAT (Collarette)**—Orange-red, yellow collarette. 25c.

**AUBRIGHT BEAUTY**—A pure, waxy white variety. Very new. 25c.

**ROSE PINK CENTURY**—A rose-pink shaded. Very large variety and without doubt the best of its color. 25c.

### Pompon Dahlias

**AMBER QUEEN**—Rich, clear amber, shaded apricot. 25c.

**FASHION**—Orange, fine. 25c.

**LITTLE BEAUTY**—Soft pink. 35c.

**SNOW CLAD**—Small white, free. 35c.

**RAPHAEL**—Very dark maroon of extra fine form. 35c.

Use **FLORANID** on your Dahlias. It gives rich color to blossoms and puts a velvety, deep green into leaves.

For particulars, see page 50.



## M. - S. Superfine Canna Bulbs

**Culture**—Canna tubers should not be put into the ground until the soil has become warm. They commence blooming in June and continue until late in September. Every shoot bears a flower and these shoots are being constantly produced throughout the blooming season.

**Note**—Our prices are for dormant roots in strong divisions of two and three eyes. After May 1st our stock of roots is usually sold, at which time we can fill orders with plants of some varieties.

**Apricot**—We consider this canna of unusual merit and especially valuable. Has healthy bright green foliage growing about four feet. Color mixture of buff and salmon.

**Mrs. Alfred F. Conard**—Gigantic flowers borne in immense clusters; color, delightful salmon pink, a shade which becomes more brilliant as the flower develops; foliage light green; 4 feet.

**Eureka**—The best white variety; free bloomer; green foliage. 4 feet.

**Florence Vaughan**—Yellow, spotted crimson; green foliage. 5 feet.

**Gladioliflora**—Has unusual shape resembling a Gladiolus. Color crimson changing to carmine rose and edged with gold; green foliage. 3 feet.

**King Humbert**—Truly a king among the Cannas, its majestic growth is doubly enhanced by a massive coppery scarlet flower and the broad deep bronze foliage. It grows 4 feet high and is splendid either as a center, edged with a dwarf yellow canna, or vice versa, placing it around a center of a tall yellow variety.

**Yellow King Humbert**. A sport from King Humbert and a majestic variety, with massive foliage; flowers golden yellow, dotted red; green foliage; 4½ ft.

**City of Portland**—Flowers of large size on heavy trusses; color, glowing pink; profuse bloomer; green foliage; 3½ feet.

**Richard Wallace**—Light yellow; green foliage. 4½ feet.

**The President**—This splendid new variety produces immense flowers of a rich, glowing scarlet; green foliage. 3½ feet.

**Wyoming**—Orange chrome red; bronze foliage. 6½ feet.

All Varieties: 15c each; \$1.50 doz.; 100, \$10.00; 50 at 100 rate.

All Above Varieties not labeled, 10c each; \$1.00 doz., all postpaid.

In almost every private garden, in all public parks and in most of the large cemeteries, Cannas are used with the greatest effect to adorn the surroundings. It is difficult to convey in language an idea of the beauty of the Canna plant and flower.

They commence blooming in June and these shoots are being constantly produced throughout the bloom-



Cannas.

**IMPROVED TIGER LILY** (Single or Double)—The grandest of the Tigers. Very large pyramids of flowers, orange red, spotted with black, 3 to 5 feet high. Blooms in August. 35c each; \$3.00 per dozen.

**MELPOMENE**—White spotted crimson. 50c each; \$5.00 doz.

**MAGNIFICUM**—Rich crimson. 50c each; \$5.00 doz.

### Fancy-Leaved Caladiums

Most attractive Ornamental Foliage Plants of easy culture. Will do well out of doors in the open as well as in pots in a half-shaded exposure, with plenty moisture and rich humus containing soil. Also as house plant or for conservatories, or in window boxes between ferns or small palms they give a very beautiful effect.

The following five standard varieties will give utmost satisfaction and are selected by specialists for our particular trade.

**Ecclatant**—Deep carmine, center changing to blood red; large leaves of strong growth. Very striking hybrid.

**Osceola**—Bright rose pink, center running outwardly into beautiful blotches on silvery whitish ground. An excellent grower.

**Orinoco**—Light pink, transparent center with bright scarlet ribs. A most showy hybrid and fine grower.

**Snowshower**—Pure white field, veined glossy bright green, extremely showy and most attractive variety and a splendid grower.

**Sunset**—Straw yellow ground with coral red and olive green blotches. A fine variety and good grower.

Price on all varieties 30c each; \$3.00 dozen, postpaid.



Fancy Leaved Caladium

### CALADIUM (Elephant Ear)

As center pieces of specimen in flower beds Caladiums answer well. They also make an excellent edging for a hardy bed of grass, for Ricinus and other tall growing plants. When planted in a bed alone, a border of Scarlet Sage removes the one color effect and makes a beautiful contrast. Do not plant Caladiums outdoors until after May 1st, but to get them in early growth they may be started indoors.

**Monster Bulbs**, 20c each; \$2.00 dozen.

For postage, add 5c each or 25c dozen.



Caladium (Elephant Ear)



Tuberose

## Mammoth Size Double Pearl Tuberoses

**Culture**—One of the most fragrant and popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after first of May. The bulbs we offer are not to be compared with cheap ones—ours are sure bloomers. Soaking them over night in lukewarm water promotes rapid growth. 5c each; 50c dozen; \$3.25 per 100, postpaid (for postage add 5c each or 25c dozen).

## Hardy Japanese Garden Lilies

No garden should be without some of these Queens of Flowers. They are perfectly hardy and can be planted in the late fall or early spring. Very seldom they are ready for delivery before early part of December. Plant 6 to 8 inches deep, in sour soil, putting a little sand under the bulbs and dusting them with powdered sulphur and some lime, will insure success.

**AURATUM (Goldbanded Lily)**—Large, graceful flowers, composed of six petals of a delicate ivory-white, thickly studded with chocolate-crimson spots and striped through the center by a golden yellow band. 35c each; \$3.50 per dozen.

### HENRYI (The Yellow Speciosum)

—A new rare and very beautiful Lily from China. It is very hardy, a strong healthy grower, and without doubt one of the best Lilies for garden culture and most effective for massing. The flower stalks, 3 to 5 feet high, carry 5 to 8 large flowers each, the color, a rich apricot-yellow, lightly spotted with brown, and the shape and size of the flowers and the habit of growth has suggested the name "Yellow Speciosum." 50c each; \$5.00 per doz.



Japanese Lily, Auratum.

**SPECIOSUM RUBRUM, or ROSEUM**—White, heavily spotted with rich, rosy-crimson spots. 50c each; \$5.00 per dozen.



All Prices Subject to Change.

## INSECT DESTROYERS

All Prices Subject to Change.

# Antrol

Ants Destroyed in Their Nests—New method "gets" them at their source—Safe, Permanent, Effective. Prices: Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, \$1.00; Antrol extra containers (each), 15c; Antrol syrup, 4 oz. bottle, 50c; pints, \$1.00; gallons, \$4.00.

**ANTI-ANT**—Ant destroyer. Non-poisonous. A very effective preparation. Price 4-oz. can 35c.

**AGRI-PAX CONTACT INSECTICIDE**—Kills insects surely, economically. No foliage injury. Stainless. Non-poisonous. Spreads evenly, completely. Does not corrode. Does not settle or clog nozzle. Recommended by florists and market gardeners. ½ pint 40c; 1 pint 60c; 1 quart \$1.00; 1 gallon can \$3.50; 5 gallon pails, \$10.00. Special prices in large quantities.

**ARSENATE OF ZINC**—1 lb. 30c; 4 lbs. \$1.00; 100 lbs. \$22.00. **BEE BRAND INSECT POWDER**—Kills all kind of bugs. Can be used in garden and house, on poultry and animal, etc. Pkg. 15c, 35c and 70c, postpaid; 5 lbs. \$3.00. Duster for same, 15c.

**BLACK LEAF 40**—Per 1 oz. bottle 35c; \$1.25 per ½ lb.; 2 lbs. \$3.25; \$11.85 per 10 lbs.

**FISH OIL SOAP**—35c per lb.; 5 lbs. \$1.25; 10 lbs. \$2.00.

**FISH OIL SOAP (Liquid)**—35c per lb.; 5 lbs. \$1.25.

**GRAPE DUST**—For mildew and blight. Per 5 lbs. 75c.

**DERRISOL, ODORLESS (Non-Poisonous Contact Spray)**—Use one teaspoonful to 1 gallon of water. Kills plant lice, flies, leaf hoppers, thrip and red spider. 1 oz. 35c; ½ lb. \$1.20; 1 lb. \$2.00; 2 lbs. \$3.00; 10 lbs. \$12.00.

**EVER GREEN**  
NON-POISONOUS INSECTICIDE

cucumber beetle, cabbage worm, asparagus beetle, tent caterpillar, rose chafer and slug, squash beetle, Mexican Bean beetle, Japanese beetle, ants, black fly and many others.

**Non-Poisonous**—Harmless to humans, livestock, birds and pets. Kills only insects. Safe to use and have in the home.

**Mailable**—Being non-poisonous Ever Green may be sent through the mails.

1 oz. bottles, 35c; 6 oz. bottles, \$1.00; 16 oz. bottles, \$2.00; 32 oz. tin, \$3.50; 1 gal. tin, \$13.00.

**HELLEBORE**—Per ¼ lb. 25c; 40c per ½ lb.; 1 lb. 70c; \$3.00 per 5 lbs.

**KAYLOX**—Is an insecticide and fungicide combined in powder form, it mixes readily with water, is very effective against all leaf eating insects.

½ Pound .....	\$0.30	5 Pounds .....	\$2.50
1 Pound .....	.55	10 Pounds .....	4.50

**KAYSO**—A combined casein spreader and adhesive to be added to spraying material. 2 lbs. 50c; 10 lbs. \$2.10; 50 lbs. \$9.50; 100 lbs. \$18.00.

**LEMON OIL INSECTICIDE**—Per ½ pt. 35c; 60c per pt.; qt. \$1.00; \$1.75 per ½ gal.; gal. \$3.00; \$12.00 per 5 gal.; 10 gal. \$22.50.

**MAG-O-TITE**—Protects crops against the ravages of the root maggot and other garden pests; also eradicates earth worms from lawns and putting greens. 1 lb. 50c; 5 lbs. \$1.50.

**NICO-FUME (Liquid)**—¼ lb. 75c; \$2.00 per lb.; 4 lbs. \$6.25; 8 lbs. \$11.50.

**NICO-FUME TOBACCO PAPER**—Per box 24 sheets, \$1.25; \$5.00 per 144 sheets; 288 sheets, \$8.75.

**NICOFUME TOBACCO POWDER**—1 lb. \$1.00; 5 lbs. \$3.75; 10 lbs. \$6.85.

**FUME TOBAC**—For fumigating greenhouses. 50 lbs. \$8.25; 100 lbs. \$15.25.

**PARA DICHLOOROBENZENE or CRYSTAL GAS**—Controls peach borers, use in June and September, 1 oz. to each tree. 1 lb. 50c; 5 lbs. \$2.00; 10 lbs. \$3.50; 25 lbs. \$7.50; 50 lbs. \$14.00.

**PARIS GREEN (Sherwin Williams)**—Per ¼ lb. 15c; 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 14-lb. kits \$4.50. Price subject to change.

**SLUG SHOT (A Non-Poisonous Powder)**—Destroys most insects that infest plant life. 1 lb. 20c; 5 lbs. 50c.

**SULPHUR (Flowers)**—Per lb. 15c; 5 lbs. 60c; 10 lbs. \$1.00; 25 lbs. \$2.25; 100 lbs. \$6.00.

**SULPHO TOBACCO SOAP**—Destroys insects on plants and animals. Pkt. 15c and 25c; 1 lb. 40c, postpaid.

**TOBACCO DUST (Special Dusting or Fumigating)**—10c per lb.; 5 lbs. 30c; 20 lbs. \$1.00; 100 lbs. \$4.50.

**TOBACCO STEMS**—Per lb. 5c; 50 lbs. \$1.75; 100 lbs. \$3.00.

**TREE TANGLEFOOT**—Per lb. 60c; \$2.75 per 5-lb. can; 10 lbs. \$5.25; 25 lbs. \$11.00.

**TREE DRESSING FRAMS**—For treating cavities, pruning, cuts, etc. 1 qt. 50c; 1 gal. \$1.50; 5 gals. \$7.50.

# Snārol

Quickly Kills Garden Pests—Science provides new, safe method that does the work without fuss. Snails, cutworms, slugs, grasshoppers, sowbugs, earwigs, etc., are exterminated. 1 lb. package 50c; 3 lb. package \$1.00; 15 lb. package \$3.75. Special prices quoted on 50-pound bags on request.



## Scalecide

### A BETTER DORMANT SPRAY

A Miscible Oil Product  
Of the Highest Quality

Costs more per gallon, but less per tree.

The oldest, safest and best known spray for fruit trees, shrubs, and vines. Used by leading fruit growers. Pleasant to use. Controls scale (fall or spring), aphids and pear thripes without Nicotine (delayed dormant). Controls red mite and leaf roller (delayed dormant). Controls psylla. Guaranteed to make a better orchard than lime sulfur, delayed dormant one to 15. Prices—1 qt. 75c; 1 gal. \$1.75; 5 gals. \$6.25; 10 gals. \$10.60; 15 gals. \$13.50; 30 gals. \$25.00; 50 gals. \$35.00. Refund on return of 15, 30 and 50-gallon drums.

# SULFOCID

A Better Summer Spray

Is truly a "better summer spray" for fruits, vegetables and flowers. Controls fungus diseases such as scab, brown spot and the like. It gives the foliage a rich green color, and increases the sheen and luster of the fruit. It is a liquid without sediment, and will not clog the nozzles. It costs no more than home made bordeaux. Dilutes one gallon to 200 gallons. 1 pint 70c; 1 quart \$1.00; 1 gallon \$2.75; 5 gals. \$8.75; 10 gals. \$15.00; 30 gals. \$39.00; 50 gals. \$60.00. Drums not returnable.

## Old Gardener Insecticide (A Powder)

A protection against deadly garden insects and plant diseases, such as certain plant lice, caterpillars, worms, bugs, and beetles which are controlled by Calcium Arsenate; also certain forms of Mildew and Blight which are controlled by sulfur. Price 50c per can. (Poison.) Not mailable.

**VOLCK** is one of the most powerful insecticides known. Kills Aphids, Red Spider, Mealy Bug, Scale, Caterpillars and most all insects, and prevents mildew and rust. Volck does not burn; it is safe to use. Highly recommended to florists. Send for special circular. Price, ½ pt. 50c; 1 pt. 75c; 1 qt. \$1.00; 1 gal. \$3.00; 5 gal. \$12.50; 14 gal. \$25.00; 28 gal. \$40.00.

IMPORTED GRANULATED  
**PEAT MOSS**  
TORF MULL  
FOR YOUR GARDEN

G P M Peatmoss takes the place of manure to a large extent because it is better than manure, is absolutely free of weed seeds, fungus or other undesirable features.

G P M is also a great soil conditioner, it corrects sandy or loamy or clayey soils so that they will hold just the right quantity of moisture and produce better plants.

Also used largely as both a summer and a winter mulch. Information gladly furnished.

**GRANULATED PEAT MOSS** is a reservoir for moisture. Laboratory tests show that it absorbs from eight to ten times its own weight. When mixed with the soil, it encourages the growth of the important beneficial nitrate-forming bacteria. Nitrate is the most expensive fertilizing element and one of the most necessary to vigorous growing plants. It is the element which plants absorb in greatest quantity, therefore, it is important that an ample supply be maintained in the soil to assure good crops of flowers, fruits or vegetables. Bale of 19-20 bushels, \$3.50.

**SPHAGNUM MOSS**—For packing plants and growing orchids. Per bale, \$3.25.





## Roses Sprayed With



### Stand Out Amazingly Superior The Ideal Spray for Roses and Other Plants

Conquers Mildew and Black-Spot—Fertilizes Through the Foliage



A highly concentrated fungicide invisible on the foliage or blooms. It is the noted Rosenbluth formulae combined with the plant stimulant—HORTOGEN—that results in plant vigor, superb foliage and amazing blooms almost beyond belief. FUNGTROGEN is an effective and scientific preventative and remedy for mildew, black spot and many fungus diseases of Roses and other plants.

In gardens where FUNGTROGEN and its companion sprays are regularly used, Brown Canker is unknown.

It is equally valuable for rust on carnations and snapdragons grown under glass. It is effective for Phlox, Chrysanthemums, Hollyhocks, Delphiniums, Sweet Peas, Evergreens, etc.

FUNGTROGEN is a complete spray, ready to use when mixed with water to 60 times its volume.

Endorsed by leading Rosarians. Prices: 4 ozs. 45c; ½ pt. 75c; pint \$1.25; quart \$2.00; ½ gal. \$3.50; gallon \$6.00.



### Kills Most Leaf-Eating Insects

A highly effective insecticide for leaf-eating insects, including caterpillars, slug worms, Japanese Beetle, etc., and has definite fungicidal value for blackspot on roses. An effective destroyer of leaf tier on Chrysanthemums grown under glass, etc.

Use INSECTROGEN alternately, as a companion spray, with the famous fungicide Fungtrogen. This results in unusually fine foliage and blooms heretofore unattainable as to color, form and general beauty. A complete spray—only water is required. Makes sixty times its volume as a spray.

Prices: 4 ozs. 60c; ½ pt. \$1.00; pint \$1.75; quart \$2.75; ½ gal. \$4.50; gallon \$8.00.



### Kills Aphis (Plant Lice)

A scientific aphicide, perfected by Rose specialists, that quickly rids your plants of aphis, the destructive tiny green or pink soft-bodied insects, commonly called plant lice, found on the tender branches and foliage—weakening the plant and carrying disease.

APHISTROGEN also refreshes and invigorates the foliage. APHISTROGEN, while primarily perfected for aphis on Roses, is just as effective when used on other plants, either outdoors or in the house. APHISTROGEN will not turn the foliage yellow. It is invisible and non-poisonous, containing no nicotine sulphate. A complete spray. Simply mix with sixty times its volume of water.

When used alternately with Fungtrogen, the results are especially effective.

Prices: 2 ozs. 50c; ½ lb. \$1.25; 1 lb. \$2.25; 2 lbs. \$3.50; 4 lbs. \$6.50; 12 lbs. \$15.00.

### Effective Ground Dressing for Your Roses



### Summer-Autumn Ground Dressing and Soil Disinfectant

Terogen destroys the spores of fungi of most diseases that have fallen to the ground, as well as the larvae of most insects, including the rose pith borers, rose bugs, aphids and most beetles. Terogen also acts as a valuable fertilizer. Makes sturdy, healthy foliage and helps to prevent chlorosis. In convenient semi-powdered form. It is well to begin using this dressing during the summer, which will lessen the possibility of blackspot and mildew appearing in the fall.

Prices: 1 lb. 75c; 2 lbs. \$1.25; 5 lbs. \$2.75; 10 lbs. \$4.75; 25 lbs. \$11.00; 100 lbs. \$40.00.



### Spring Ground Dressing and Soil Stabilizer

A remarkable Plant Food, soil stabilizer and ground dressing for your roses. Ferogen should be cultivated into your rose beds in the Spring and early Summer. It supplies vital chemical elements and stimulates to vigorous root action and strong growth. In convenient semi-punctured form. Ferogen re-inforces stable manures, and has been successfully demonstrated at the renowned Rose Gardens at Wallingford, Penna., where even experts from the Agricultural Department concede that they have never seen such specimens.

Prices: 1 lb. 75c; 2 lbs. \$1.25; 5 lbs. \$2.75; 10 lbs. \$4.75; 25 lbs. \$11.00; 100 lbs. \$40.00.





## NIAGARA PRODUCTS

THE GARDEN POLICE  
Guards                      Gardens

### Pomo-Green

#### The Leaf Green Rose Dust

Will control black spot, mildew and external chewing insects on roses. Also snapdragon rust, carnation rust and mildews in general on flowers and shrubs.

Price, 1 lb. can 50c; 5-lb. carton, \$2.00.

A Niagara Dust for every need.

#### Entodust No. 1

A good poison to kill all chewing insects such as beetles, worms, caterpillars, etc., on flowers, shrubs, trees and vegetables. 1 lb. 40c.

#### A-1 Dust No. 2

A good cure for Aphis and Plant Lice and all insects which suck the juice from the plants, also for fumigating greenhouses and conservatories. 1 lb. 60c.

#### D-6 Dust No. 3

To prevent diseases in the vegetable garden. 1 lb. 45c.

#### Pomo Dust No. 4

Prevents and cures mildew and blackspot on roses and other plants. 1 lb. 35c; 5 lbs. \$1.25; 10 lbs. \$2.25; 100 lbs. \$12.

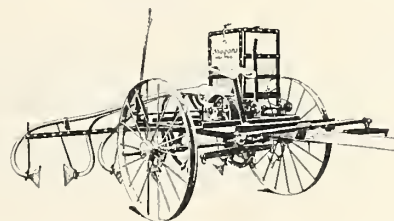
#### D-20 Dust No. 5

A combination fungicide and insecticide for chewing insects on vegetables. 1 lb. 50c.

#### All-In-One Dust No. 6

A combination of nicotine and pomo dust. A good dust to use to keep up general good health, prevent disease and attacks of insects. 1 lb. 75c.

### Niagara Dri-Fog Crop Duster



4 Row, 2 Nozzles to each row—accurate feed—even distribution. May be used on potatoes, celery and other field row crops. This machine may also be equipped with scoop nozzles for Bean Beetle dusting.

Niagara Dri-Fog Crop Duster—Price complete, \$210.00.

Scoop Nozzles for Bean Dusting, \$40.00 per set.

### WHY BUGS LEAVE HOME



### Wilson's O. K. Plant Spray

#### The Insecticide Supreme

For 20 years the leading insecticide of America, for inside and outside spraying. For aphids, thrip, mealy bug, scale, rose bugs and many other insects. ½ pint 40c; 1 quart \$1.00; 1 gallon \$3.00; 5 gallons \$12.00.

### Fairmount Weed Killer

Destroys vegetation wherever applied. One gallon makes 50 gallons of treating liquid to effectively cover 100 to 150 square yards. For driveways, tennis courts, baseball diamonds and walks, etc. Will not stain marble or stone. For 35 years the successful weed killer. Prices: Qt. 70c; ½ gal. can, \$1.00; 1 gal. can, \$1.75; 5 gal. can, \$7.25; 30 gal. drum, \$33.00; 55 gal. drum, \$55.00.



## ATLACIDE NON-POISONOUS WEED KILLER PATENTED DUSTER

to be killed. Especially recommended for obtaining weed-free driveways, paths, tennis courts and gutters.

1-lb. DUSTER ..... 50c Each  
(kills 100 sq. feet of weeds)

3½-lb. DUSTER ..... \$1.50 Each  
(kills 350 sq. feet of weeds)

Bulk sizes for refilling duster or for making solution

50-lb. Drum ..... 20c lb.  
(kills 5,000 sq. feet of weeds)

100-lb. Drum ..... 19c lb.  
(kills 10,000 sq. feet weeds)

200-lb. Drum ..... 18c lb.  
(kills 20,000 sq. feet weeds)

### Vermine

For eel, cutworms and wire worms, working in the soil. It can be applied to all vegetation. ½ pt. 40c; 1 pt. 65c; qt. \$1.00; gal. \$3.00.

NOT MAILABLE

### Cyanogas For Killing Rodent and Insect Pests Rats, Moles, Ants, etc.

Cyanogas Calcium Cyanide is a slate-gray material that gives off hydrocyanic acid gas upon exposure to the air. This makes it extremely easy to apply. The gas is deadly to the rodent and insect pests and will kill them almost immediately. None can escape it. There is no danger to persons handling Cyanogas if reasonable care is used.

Price: 1 lb. 75c; 5 lbs. \$3.00; 25 lbs. \$10.00; 100 lbs. \$30.00.

### Cyanogas Dusters

Two general types of Cyanogas Dusters for rodent control. Special hand duster for small infestations, and Foot Pump, small, for large infestations. Used especially for rats and moles.

Prices—Special Hand Duster, \$1.40; Foot Pump, small, \$4.75. Postpaid \$5.00.

KNAPSACK DUSTER—\$16.00 Postpaid.

Give Freight or Express Station When Ordering.

### Soiltex

TEST FOR ACID SOIL—DOES YOUR SOIL NEED LIME?  
Soiltex Tells What Your Soil Needs. Postpaid, \$1.00.

### La Motte Soil Teskit

To correctly test your soil, see how sour or how sweet it is, find out what fertilizer is needed. \$1.50 postpaid.



# RED ARROW INSECT SPRAY

(PYRETHRUM SOAP)

*Endorsed and Used by a Host of  
Federal and State Entomologists, Specialists,  
Flower and Vegetable Growers*

Mr. Arthur Warner, President of the Maryland Rose Society and Mr. Robert Jones, Superintendent, Druid Hill Park, allow us to state for them that almost without reservation they recommend RED ARROW as the best general Insecticide known against all classes of insects affecting vegetation.

Absolutely Non-Poisonous  
to Child, Bird or Pet



Will Not Burn, Blight or Stain  
Leaf, Flower or Fruit

Prices: 1 oz. 30c; Postpaid 35c; 1/2 pt. \$1.75; 1 qt. \$6.00; 1 gal. \$22.00 (3 last named postpaid).

RED ARROW INSECT SPRAY is a concentrated Pyrethrum Extract which, when diluted one part to 500 or one part to 1000 with water, makes a singularly effective agent in killing all classes of insects, affecting flowers, shrubbery, vegetables, fruit, etc. Although deadly to insects, it is absolutely harmless to plants, animals or human beings and will not injure vegetables

or fruits which can be safely eaten after they have been sprayed with RED ARROW. It is economical for general use in small quantities,—only 1/2 teaspoonful diluted in a quantity of water is necessary. For larger quantities use 1. oz. to 3 gallons of water.

## RED ARROW WILL KILL

Rose Chafers  
Leaf Hoppers  
Aster Beetles  
Aphides  
Cabbage Worms  
Green flies  
Ants

Asparagus Beetles  
Thrips  
Mealy Bugs  
Millipedes  
Caterpillars  
Leaf Rollers  
Cucumber Beetles

Tarnish bugs  
Mexican Bean Beetles  
Japanese Beetles  
Cut Worms  
Dahlia Beetles  
White Flies  
Root Lice

## WHAT USERS SAY

"I have used 14 various spray materials for general garden and greenhouse insects, and in my opinion RED ARROW is the best so far in my experience."

JAMES HAMILTON,  
Hamilton Nurseries,  
Baltimore, Md.

"I have used many insecticides for years and know that nothing equals RED ARROW. In addition to killing the insects, it harms neither flower nor foliage."

J. W. BAUBLITTS,  
Landscape Gardener,  
Mt. Washington.



# BOWKERS INSECTICIDES

Here's How to Have the Most Beautiful Flowers and the Most Luscious Vegetables in Your Neighborhood

Good Seeds, well-prepared soil, reasonable care and Pyrox Spray. That is the secret of a fine garden—the kind of garden that you are proud to show and which brings a real return.

Thousands of users tell us there is absolutely nothing like Pyrox for making plants produce to the very utmost. It kills their natural enemies so they can put all their energies into the production of big, healthy plants, flowers and vegetables.

You take no chances with Pyrox. It does the work, saving time, money and labor. It kills worms, bugs and insects; prevents the blights and controls the diseases that turn plant leaves yellow, brown or black; and improves foliage—all in one operation. And once sprayed on, Pyrox sticks, making frequent sprayings unnecessary.



10 lbs. \$3.00; 25 lbs. \$6.25; 50 lbs. \$10.75; 100 lbs. \$15.50; 300 lbs. \$43.50. Not available.

Use Pyrox for your Seed Corn (see page 13).

Use Pyrox for potatoes, tomatoes, cucumbers and other vegetables; grapes, small fruits; roses, shrubs and flowers of all kinds. Results will really amaze you.

Pyrox is easy to use. Five minutes and you're ready to spray. No fuss or muss. Simply dip this creamy-smooth paste out of jar or can, add water as directed; stir—and in a few moments you have a perfect mixture that sprays mist-like through the finest nozzles. Pyrox lays a thin protective coating over the whole plant. Sticks like paint. One pound of Pyrox makes 5 to 6 gallons of spray.

The new Spray Guide contains up-to-date spray information of value alike to the home gardener and the commercial grower. You may have a copy free. Pyrox prices—1 lb. 50c; 5 lbs. \$1.75;

Bowker's powdered materials contain no cheap stickers or spreaders. You may wonder why this is so, believing that a spreader and sticker is necessary. You never heard of a talcum powder manufacturer putting a spreader or sticker in his product, yet talcum powder spreads and sticks to perfection. No spreaders or stickers are used because of the fineness of the material which makes this unnecessary.

Take Bowker's Arsenate of Lead for instance. Run your hand through it and you will find that a lot of it clings like talc. Try to blow it off. See how much of it still sticks. This is because it is so fine. It is the extra fine material like that remaining on your hand which does the most damage to the insect. It dissolves more quickly than coarse material and it must dissolve before it can kill. It works just like sugar. Powdered sugar will dissolve much quicker than granulated. Coarse material will frequently pass through the insect without dissolving.

The fineness of Bowker's Arsenate of Lead and other powdered materials is assured because it must pass a 200-mesh screen before leaving the factory. Actually much of it will pass a 400-mesh screen. You will realize how fine this really is when you consider that a 200-mesh screen has 40,000 holes to the square inch. The finer the material, the more effective it is,—the better it sticks and the better it kills.

## Bowker's Powdered Arsenate of Lead

The result of 33 years of manufacturing this product—a longer experience than that of anyone else in the business. Bowker's can be used either as a spray or as a dust for all external-chewing insects. It will not burn or injure your crop. Unlike some brands, Bowker's mixes easily, stays well in suspension and is so finely divided that you get an even distribution, with no trouble from clogged nozzles. Sticks to the foliage thru heaviest rains. In Bowker's you obtain unusual efficiency at no additional cost. Prices—1 lb. 30c; 4 lbs. 80c; 48-lb. pkg. \$10.64.



## Bowker's Calcide

(High Grade Calcium Arsenate)

Bowker's Calcide is excellent for potatoes and truck crops; it is cheaper than Lead Arsenate. Although formerly used only in the South to kill the cotton boll weevil, Calcide is now employed in other sections to kill such pests as potato bugs, bean beetles, and other leaf-chewing insects. Calcide may be applied either wet or dry. Prices—1 lb. 25c; 4 lbs. 60c; 48 lbs. \$5.76.

## Bowker's Lime Sulphur, Dry and Liquid

Bowker's Dry Lime Sulphur is made by a special patented process which keeps the product in good physical condition, thus insuring its going into suspension quickly. Dry Lime Sulphur does not have some of the disagreeable features of the Liquid and is now generally accepted by fruit growers everywhere. It is used as either a dormant spray to kill scale or as a summer spray to control fungous diseases such as scab, rot, etc. 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.00; 50 lbs. \$7.00; 100 lbs. \$12.00; 200 lbs. \$22.00.



Bowker's Liquid Lime Sulphur (concentrated) is prepared from the highest grade of lime and the purest sulphur; combined in especially designed apparatus, and in quantities so large as to allow plenty of time for storage and settling. Thus the solution which reaches you is cherry red in color, clear and sparkling. It will not crystallize, thicken up in the barrel, or clog the finest nozzles. If used according to directions, Bowker's Lime Sulphur will kill every scale that it touches. 1 qt. 40c; 1 gal. 90c; 5 gals. \$3.00; 10 gals. \$5.00; 50 gals. \$10.00.

## Bowker's Powdered Bordeaux Arsenate



Placed on the market only after many years of careful research to produce a combined insecticide and fungicide in powdered form. While as a rule, powdered fungicides are not as effective in controlling blights, rusts and rots as a paste material (like Pyrox), Bowker's Powdered Bordeaux Arsenate provides a very useful material. Being light and very finely divided, Bowker's Bordeaux Arsenate mixes readily, sprays without clogging, and adheres to the foliage for many days. Used for killing leaf-chewing insects and controlling fungous diseases on vegetables and small fruits. Prices—1 lb. 35c; 4 lbs. \$1.25; 48 lbs. \$11.50.

## Bowker's Copper Lime Dusts

These dusts have met with marked favor among the users of these products because of their exceptional quality. This quality is the result of long experience in their manufacture and a clear understanding of what constitutes quality in a dust. With the Bowker factory right here in Baltimore we can make up special dusts according to your own specifications. Ask for prices. 20-20-60 Mixture has met with great success in destroying the Mexican Bean Beetle. 100 lbs. \$9.00.

## Bowker's Powdered Bordeaux Mixture

A powerful fungicide for the control of blights, rusts and rots on any crops where bordeaux is recommended by the experiment stations or other agricultural authorities. Fine, light and fluffy, Bowker's Bordeaux mixes easily and completely. Hence it covers evenly and sticks well to the foliage. When bugs or worms are present use Bowker's Pyrox in place of Bordeaux, as Bordeaux contains no poison. Prices—1 lb. 30c; 4 lbs. 75c.





# Fertilizers and Plant Foods

All prices on Fertilizers are subject to Market Changes.

**ADCO**—Don't waste garden rubbish. Turn it into manure with ADCO. ADCO is a powder which, mixed with almost any non-woody vegetable waste, and kept wet, gradually converts it into manure. 25 lbs. of ADCO make  $\frac{1}{2}$  ton of manure. Price, 150 lbs. \$10.50; 25 lbs. \$2.00.

**ASPARAGUS SALT**—Applied in spring 600 to 800 lbs. per acre, for destroying weeds. 56 lb. \$1.25; original sack, 140 lbs. \$2.25.

**ALUMINUM SULPHATE** (For Rhododendrons and Azaleas). 1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; \$6.25 per 100 lbs.

**BLOOD (DRIED)**—For indoor and outdoor culture of flowering plants, like roses, carnations, etc., its chief element being nitrogen. Fine for ferns. 1 lb. 15c; 5 lbs. 60c; \$1.00 per 10 lbs.; 25 lbs. \$2.00; \$3.75 per 50 lbs.; 100 lbs. \$7.00; \$12.00 per 200 lbs.

**PURE BONE MEAL** (3-50)—Splendid article for building up worn-out soil, lawns, etc. 1 lb. 6c; 10 lbs. 50c; 25 lbs. \$1.25; 100 lbs. \$3.50; 200 lbs. \$6.00; ton \$48.00. Quick acting.

**RAW BONE MEAL** (4 $\frac{1}{2}$ -48)—Free from acid. Unusually rich in nitrogen and phosphoric acid, the two principal plant foods. We recommend this especially for greenhouses or any purpose where a high-class slow acting fertilizer counts. 1 lb. 6c; 10 lbs. 60c; 25 lbs. \$1.25; 100 lbs. \$3.75; 167 lbs. \$6.00; ton, \$55.00. Slow acting.

**BONE FLOUR**—Finely pulverized and bolted. Effective immediately. For rose growing this cannot be excelled. Rich in phosphoric acid and ammonia. Apply 600 lbs. per acre. 5 lbs. 60c; 10 lbs. 85c; 25 lbs. \$1.50; 50 lbs. \$2.75; 100 lbs. \$5.00; 200 lbs. \$8.50.

**COW MANURE**—See next page.

**INSECTILIZER**—A combined tobacco base insecticide, fertilizer, and mulch. Shredded so that the nicotine and plant food are readily available. Promotes healthier growth, better stems, larger blooms, and richer coloring. Also has high insecticidal value. \$3.25 100 lbs.; 5c lb.

**F. & I. FERTILIZER AND INSECTICIDE**—A ground, tobacco-base fertilizer and insecticide containing fine particles for dusting. F. & I. quickly stimulates healthy growth and protects plant life against insect pests. \$3.25 100 lbs.; 5c lb.

**GYPSUM or LAND PLASTER**—Intensifies the color of roses, other flowers as well. Used for top dressing newly plowed land prior to harrowing; also for sweetening the soil on lawns and fields. Apply 1,000 to 1,500 lbs. per acre. 40c for 10 lbs.; 25 lbs. 60c; \$1.00 for 50 lbs.; 100 lbs. \$1.75; \$2.50 for 200 lbs.

**HUMUS (Leaf Mold)**—Fine for lawns, replanting and repotting. 4c lb.; 10 lb. 35c; 50 lb. \$1.50; 100 lb. \$2.50; 500 lb. \$10.00; 1,000 lb. \$18.50, last four sizes delivered. Ton and car load prices on application.

**LIME (Hydrated or Powdered)**—Promotes growth and gives the grass a rich color. Apply one ton per acre on fields, or  $\frac{1}{2}$  ton on lawns. 5 lbs. 20c; 10 lbs. 30c; 50 lbs. \$1.00; 100 lbs. \$1.50; 500 lbs. \$6.00; 1,000 lbs. \$10.00. Ton \$18.00.

**MURIATE OF POTASH**—Apply 100 to 150 lbs. per acre, usually with other fertilizers. Excellent for potatoes, corn, grains, etc. Analysis, equal to 50 per cent actual potash. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**NITRATE OF SODA**—Apply 100 to 150 lbs. per acre, mixing with land plaster or other fertilizers to render application more easy. Use only after plants are above ground. If used in liquid form dilute 2 ozs. to 1 gal. of water and do not apply oftener than twice a week. 10c lb.; 3 lbs. for 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$4.50. Price on larger quantities on application.

**NITRATE OF SODA—Pellet Form**—15c lb.; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.00; 100 lbs. \$5.00. Prices on larger quantities on application.

**COMMERCIAL FERTILIZER** (Baugh & Armour) 2-8-5—For potatoes and general crop. Ton \$29.00; 165-lb. bag \$3.75; 100 lbs. \$2.75; 50 lbs. \$1.75; 25 lbs. \$1.00.

**PERUVIAN GUANO SUBSTITUTE** 5-8-5 (Baugh & Armour)—All around high grade fertilizer. Ton \$38.00; 165-lb. bag \$4.50; 100 lbs. \$3.25; 50 lbs. \$2.00; 25 lbs. \$1.25; 6c a lb.

**TOBACCO FERTILIZER** 4-8-4 (Baugh & Armour)—Ton \$36.00; 165-lb. bag \$4.00.

**COMMERCIAL FERTILIZER** 1-9-4 (Baugh & Armour)—All around goods. Ton \$25.00; 165-lb. bag \$3.25.

**UPLAND WHEAT FERTILIZER** 4-16-4 (Baugh & Armour)—Ton \$40.00; 165-lb. bag \$4.50.

**LOW LAND WHEAT FERTILIZER** 2-16-8 (Armour)—Ton \$38.00; 165-lb. bag \$4.25.

**SHEEP MANURE**—See next page.

For Fertilizer to be sent by parcel post, add 7c for 1 lb. and 1c for every additional lb. Like 1 lb. 7c; 10 lbs. 16c.

**PHOSPHATE, HIGH-GRADE ACID TENNESSEE OR SOUTH CAROLINA ROCK**—16 per cent. Apply 1,000 lbs. per acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. Price, \$17.50 per ton; 167-lb. bag, \$2.50.

**SULPHATE OF AMMONIA**—10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**SULPHATE OF POTASH**—Fine for roses. 10c lb.; 3 lbs. 25c; 5 lbs. 40c; 10 lbs. 75c; 100 lbs. \$5.00.

**TOBACCO STEMS**—For fumigating, mulching and fertilizing; an excellent top dressing for lawns in winter. 1 lb. 5c; 50 lbs. \$1.50; 100 lbs. \$2.50.

**WOOD ASHES** (Canadian Unleached Hardwood Ashes)—High in potash. Excellent for roses, grass, etc. Apply in early spring or late fall. 1,000 lbs. to acre. 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 100 lbs. \$2.50.

## STIM-U-PLANT

An All-the-Year Fertilizer for Garden and House Plants.  
Prices: Small size, 25c; 100 tablets, 75c; 1,000, \$3.50. Postpaid.

## VIGORO

Specially prepared plant food

—Specially Prepared Plant Food. Now you can have the velvety lawn you have always wanted. Beautiful bright-colored flowers and luxuriant shrubs. Tender, crisp and delicious flavored vegetables will be yours if you apply

**VIGORO — ODORLESS — WEEDLESS — DUSTLESS**

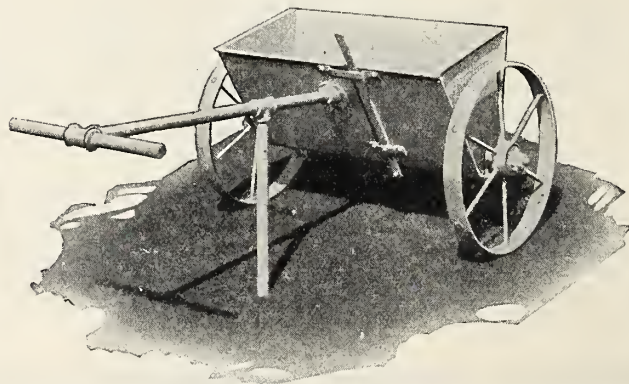
12 oz. can. .10c; postpaid 17c 25 lb. bag. \$1.75; postpaid \$2.06  
5 lb. can. .50c; postpaid 61c 50 lb. bag. 3.00; postpaid 3.56  
100 lb. bag. . . . . \$5.00, freight extra.

For further particulars, see back cover.

## Springfield Rose Food

An organic fertilizer, containing the vital elements of plant life in scientifically correct proportions to make it an ideal food for roses. Will keep your bushes in splendid condition and produce an abundant crop of perfect blooms. Prices: 10 lbs. \$1.00; 25 lbs. \$2.00; 100 lbs. \$6.00.

## Hofmann, Jr., Plant-food and Grass Seed Distributor



Designed especially for hard continuous service on lawns and gardens of large estates, suburban properties, golf courses, country club grounds, parks, cemeteries, schools, etc. Capacity—Approximately 60 lbs. lime or corresponding capacity in pulverized fertilizer seed, etc. Special circular on request. Price, \$22.50; with Grass Seed Attachment, \$25. Express or freight only.

### THE HAWKS FERTILIZER SPREADER

Distributes any kind of commercial fertilizers, lime, or gypsum. Easily filled through the large end-opening. Contents are thoroughly mixed by tumbling in the cylinder. No lumps can come through the sieve-like openings. Adjustable instantly to any desired spread. Capacity about 50 lbs. Price, \$12.50.





# Fertilize your lawn and flowers with **WIZARD**

There are no safer or more dependable fertilizers than Wizard Sheep and Cow Manures. These pure manures are highly concentrated and sterilized so as to kill all weed seeds. These natural fertilizers are safe and will not burn plants. Everybody can get wonderful results with Wizard Brand Manures because they supply the humus and natural plant food so necessary to make all soils rich and fertile. Try Wizard this year on your lawn and garden and see how quickly and economically these safe fertilizers put new life and beauty into your plants.

## Absolutely Weedless -- Will Not Burn Plants!

**LAWNS.** Wizard produces a thick velvety lawn of lasting beauty. On new lawns broadcast 10 lbs. to 100 sq. ft. and rake into the surface soil. To rejuvenate old lawns rake them well and then broadcast 6 to 10 lbs. to 100 sq. ft. Wizard acts quickly but will not burn your lawn. To be safe use Wizard—it's positively weedless.

**FLOWERS AND SHRUBBERY.** Luxuriant green foliage and a wealth of vivid colored flowers quickly follow the use of Wizard Sheep and Cow Manures. Use Wizard Sheep Manure on shrubbery, vines, annuals and quick growing perennials. Cow Manure is better for roses and the more sensitive and delicate perennials. Cow Manure is cool and slow acting. Top dress established plants at the rate of 10 lbs. to 100 sq. ft. and rake into the surface soil. For shrubs, vines and trees from one to five pounds each, depending on size. When setting out new plants always mix a handful of Wizard with the soil under each plant.

**VEGETABLES AND FRUITS.** Every practical gardener knows that there is nothing better than manure to produce big crops of crisp, tender vegetables. Wizard promotes early maturity and high quality. It increases yield, color and flavor of fruits.

**HUNDREDS OF FLORISTS** know that Wizard Sheep and Cow Manures are unexcelled for feeding, mulching and liquid manuring. Wizard Manures are all direct heat dried and sterilized. They do not contain garbage tankage, wool scourings, sand or other inferior fillers. Insist on Wizard Brand if you want results at least cost.

**PRICES OF WIZARD BRAND SHEEP MANURE**—2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00; 500 lbs. \$13.50; 1,000 lbs. \$25. Ton, \$47.50.

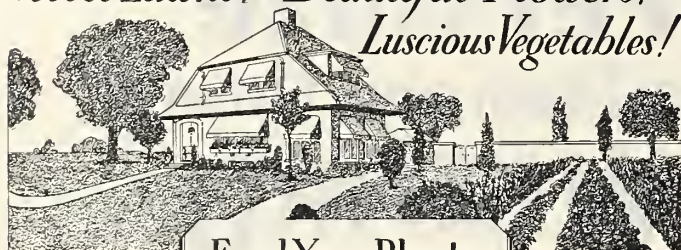
**PRICES OF WIZARD BRAND COW or CAT-TLE MANURE**—2 lbs. 15c; 5 lbs. 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$2.00; 100 lbs. \$3.50; 500 lbs. \$16.25; 1,000 lbs. \$30.00; \$55.00 per Ton.



Wizard makes big crops.



*Velvet Lawns! Beautiful Flowers!  
Luscious Vegetables!*



Feed Your Plants  
THIS SIMPLE, EASY  
PLEASANT WAY

These new air-nitrogen fertilizers are three to four times as rich in plant-food as the ordinary fertilizer. They are as clean as sugar to handle, and are absolutely free from weed seeds and all obnoxious odors.

**NITROPHOSKA**  
15-30-15

This concentrated complete fertilizer contains all of the three essential plant-foods—nitrogen, phosphoric acid and potash. It has 15% nitrogen, 30% phosphoric acid and 15% potash. Nitrophoska produces strong, vigorous growth of rich green color. Five to ten pounds is enough to fertilize 1,000 square feet of lawn or garden.

**FLORANID**  
(UREA)

Floranid is a very rich nitrogen fertilizer (46% nitrogen), used during the growing season to obtain more rapid growth, richer color of foliage and greater brilliancy of bloom. The nitrogen is in the same chemical form as liquid manure. One pound of Floranid is enough for one application to 1,000 square feet of lawn or garden.

## A Trial Will Convince You



Not until you try these wonderful new fertilizers can you possibly realize the marvelous results that they will give you. Five to ten pounds of Nitrophoska is enough for an early spring application to 1,000 square feet of lawn or garden. One pound of Floranid is enough for one summer application for 1,000 square feet of lawn or garden. Be sure to try these fertilizers this season—mail in your order now.

The amount of actual plant-food in a fertilizer—not its bulk—determines its value. Nitrophoska is the most economical fertilizer because it contains the most plant-food—"a little goes a long way." Amount of Nitrophoska required, compared to the usual fertilizer:

Other Fertilizers	Nitrophoska	PRICES (Nitrophoska or Floranid)
3 to 5 lbs.....	1 lb.	1 lb.....\$ .50—postpaid \$ .57
15 to 25 lbs.....	5 lbs.	5 lbs..... 2.00—postpaid 2.12
30 to 50 lbs.....	10 lbs.	10 lbs..... 3.00—postpaid 3.17
75 to 125 lbs.....	25 lbs.	25 lbs..... 5.00—postpaid 5.32

You Will Be Assured

## BEAUTIFUL GARDENS AND LOVELY HOUSE PLANTS

By Using the New, Improved, Quick Dissolving  
PLANT FOOD IN TABLET FORM

## FULTON'S Plantabbs ODORLESS PLANT FOOD TABLETS

These tablets are very concentrated yet properly balanced with the guaranteed high analysis of Nitrogen 11%, Phosphoric Acid 15%, Potash 20%. Convenient, clean, being specially adapted to inside use where smelly fertilizer cannot be used. Makes ferns, begonias, window boxes grow and thrive in spite of heated rooms.

### FOR GARDEN USE

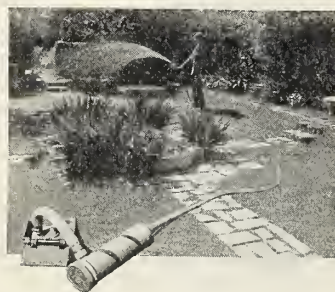
PLANTABBS are highly recommended for roses, delphinium, asters, dahlias, chrysanthemums, in fact all garden flowers. Plant one tablet with each bulb and they will produce marvelous blooms. PLANTABBS are perfectly safe. Directions in every package. 30 Tablets 25c; 75 Tablets 50c; 200 Tablets \$1.00; 1000 Tablets \$3.50. Postpaid.



## The Vex Automatic Fertilizer

This New and Amazingly Simple Device Transforms Your Hose  
Into an Automatic High-Pressure Fertilizer.

Makes it Possible for You to Fertilize Your Lawn as You Sprinkle  
What It Is—How It Works



The Vex Automatic Fertilizer is simply an enameled brass cylinder 12 inches long and 3 inches in diameter. It has two hose connections. One for the water to enter from the faucet. The other for the water to pass out through your lawn hose—charged with this remarkable grass food.

Into this cylinder is slipped a cartridge of Lawn-Vex—sufficient for 2,400 square feet or a plot 40x60.

This cartridge dissolves to the proper solution as the water passes through the cylinder. Thus an even flow of life-giving food is spread over your lawn as you sprinkle it.

Prices: Containers and Cartridges complete, \$6.00, postpaid.

Extra Cartridges, \$2.00 each, postpaid.

## LOMA

### Lawn and Plant Food

#### BEAUTIFIES LAWNS AND GARDENS

Highly concentrated, a scientifically prepared plant food for lawns, flowers, shrubbery, vegetables, trees and potted plants. 1 lb. 25c; 5 lbs. 60c; 10 lbs. \$1.00; 25 lbs. \$2.00; 50 lbs. \$3.50; 100 lbs. \$6.00.



## RUSTIC CEDAR BIRD HOUSES

**\$1.75 Each**

We can supply  
18 Different Styles

**Postpaid \$1.85**



**\$5.00 per Set of 3**

We can supply  
6 Different Sets

**Postpaid \$5.16**

There are several things to be said in favor of Rustic Bird Houses, particularly of the sweet smelling Jersey cedar, which is a disinfectant in itself. If you are sufficiently interested, nail up a Rustic house alongside a brightly painted one, and see which they will select. It is the "back to nature movement" among the birds. Where did they nest before civilized man inhabited this country? In hollow trees, woodpeckers and their kind boring their own in dead trees. Now such suitable places are fast disappearing under the pruning and slashing axe of man.

These bird houses are very artistic in design and unique in rustic construction. They are the kind birds will use and will enhance the surroundings of any home. When ordering specify the kind of birds the houses are intended for.

As illustrated:

No. 62—Blue Bird.

No. 61—Wren.

No. 60—Robin Shelter.

## REVIVO

**Japanese Beetle Grub Controlled**

**Crab Grass Prevented**

**Revivo**

A unique, scientific preparation that controls the Japanese Beetle by destroying the Beetle Grub in the soil. It is a known fact that the Japanese Beetle is feeding on the roots of the grass in the lawn in the grub stage the greater part of the year. This is the most vulnerable point in the life cycle of the beetle.

Therefore, it is the ideal time to dust a poison over the lawn or garden which is sure death to all grubs in the soil.

**Revivo** will control all grubs, and in addition will remain active for three or four years, and prevent the Japanese Beetle Grub from coming out of the ground if applied in the spring before the latter part of June or any time in the fall.

This is the most satisfactory and sure way to combat the ravages of this destructive pest—no other method has proven so effective.

**The Lawn Fertilized**

**Crab Grass**

Is prevented by the application of **Revivo**; chick weed, plantain, and dandelion is stunted in growth, and have a low rate of germination wherever **Revivo** is used. In this respect it is a valuable addition to the Horticultural remedies, and if it had no other functions, the fact that **Revivo** prevents fall and crab grass would be ample reason for its existence, and most remarkable of all **Revivo** fertilizers, and promotes remarkable growth, and finer lawns are assured.

The application is simple—Rake the dead grass off the lawn, and sprinkle **Revivo** all over the ground at the following rate:  
10 lbs. will cover a space of 250 square ft.  
100 lbs. will treat 2,500 square ft.

Follow this by sowing Lawn Seed at the rate of one quart to every 100 square feet, and follow this by a good rolling.

Price: 10 lbs. \$1.50; 25 lbs. \$3.50; 100 lbs. \$10.00; 500 lbs. \$45.00



## Controls "BROWN PATCH", "DAMPING-OFF" and SEED-BORNE DISEASES of

Grains, Field and Forage Crops, Vegetables,  
Corn, Potatoes and Flowers

### Superior Grain, Better Flowers and Finer Vegetables

### Grow from Soil and Seeds Disinfected Against Diseases with Semesan,

NOT AVAILABLE.

**Semesan Jr., Semesan Bel and Ceresan.**

NOT AVAILABLE.

Circulars treating fully on treatments with the different disinfectants on request.

#### PRICES FOR SEMESAN

2 ozs. ....	\$ .50	5 lbs. ....	13.00
1 lb. ....	2.75	25 lbs. ....	56.25

#### PRICES FOR JR. FOR CORN, AND BEL FOR POTATOES

4 ozs. ....	.50	5 lbs. ....	8.00
1 lb. ....	\$ 1.75	25 lbs. ....	31.25

#### PRICES FOR CERESAN FOR GRAIN SEEDS

8 ozs. ....	\$ .50	5 lbs. ....	3.00
1 lb. ....	.75	25 lbs. ....	12.50

100 and 300-lb. containers of each product are available. Prices furnished on request.





Early Cabbage growing  
THROUGH Gator-Hide . . .  
two rows to the strip . . .  
staggered.

Gator-Hide in use on  
general vegetable crop.



# ... Bigger crops, Better crops, Earlier crops... practically NO WEEDING!

**H**ERE is good news for the man who is really proud of his garden and who wants to achieve success without too great an expenditure of time and labor.

Gator-Hide Mulch Paper stimulates plant growth by increasing the temperature of the soil, by conserving moisture in the soil and by eliminating the weeds that usually steal plant foods no matter how often the grower goes through the back-breaking process of weeding.

Gator-Hide under thousands of tests has proved these four things:

1. That it grows bigger crops.
2. That it grows better, sturdier, higher quality crops.
3. That it brings practically all crops to maturity earlier.
4. That weeds cannot come up in the soil that it covers.

Use Gator-Hide Mulch Paper this year. It's the new way of growing things—the better way—the easier way.

#### RETAIL PRICES

##### Type A (light weight)

Width	Length	Sq. Ft.	Per Roll
18 in.	900 ft.	1350	\$3.50
36 in.	900 ft.	2700	7.00

##### Type B (heavy weight)

Width	Length	Sq. Ft.	Per Roll
18 in.	450 ft.	675	\$3.50
36 in.	450 ft.	1350	7.00

Substantial discounts on orders of  
30 rolls or more.

This paper is licensed for use in the 37 states east of Colorado and in Canada east of Saskatchewan under the patents of Charles F. Eckart, the inventor of mulch paper, which are owned by the International Paper Co.

# GATOR-HIDE Mulch Paper





## Platz Green Double Action Duster

The Double Action Duster is identical with the Single Action in construction with the exception of the double bellows, which insures a more steady flow of dust with the same ease of operation, and is better adapted for dusting a denser growth of foliage. Net weight 17 lbs. Shipping weight 44 lbs. Capacity, 20 to 30 lbs.

Price, \$22.00. Fig. 1.

## Platz Vermors Brass Sprayer

A PRODUCT OF QUALITY  
COMPACT — DURABLE — EFFICIENT

Having no plunger pump, it has no plunger troubles. Its diaphragm-pump will supply a sufficient pressure with but little effort. Its working parts are few, making it easy to operate and economical in upkeep. Capacity approximately four gallons. Net weight 16 lbs.

Price, \$20.00. Shipping weight 28 lbs. Fig. 2.

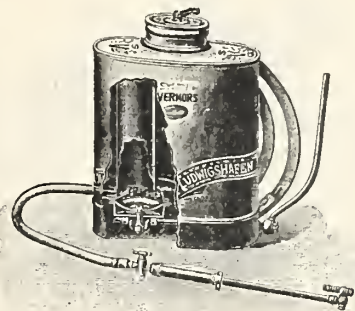


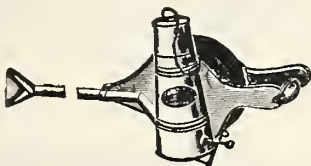
Fig. 2.



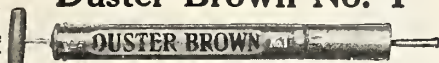
Fig. 1.

## Platz Famous Hand Duster

Its agitator will crush and sift sulphur as well as the standard dusting materials. Regulator is adjustable for a light or heavy application. Bellows of high quality leather. Extension pipes and spreader of 24 inches. Compact and efficient. Capacity, one pound. Price, \$5.00.



## Duster Brown No. 1



This Duster is adapted for use with all insect powders. A favorite with the housewife. Powder chamber 1 1/4 in. diameter, 4 in. long. Pump 1 1/4 x 12 inches.

Price, 75c; postpaid, 85c.

Cyanogas Foot Pump—Small, \$4.75. Postpaid, \$5.00.

Cyanogas Knapsack Duster—\$16.00, postpaid

## FEENEY DUSTER

Model BX—Long spout, 28 ins. long. Price, \$1.25, postpaid. These dusters are recognized as standard dusting outfits for applying all kinds of powdered insecticides in fields, vineyards, and gardens, etc.

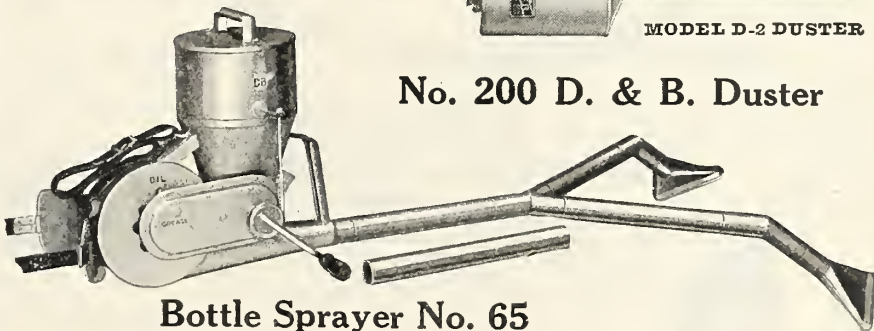
## D & B FIELD DUSTER No. 200

For dusting all vegetable and fruit crops as well as cotton, tobacco, etc. Can be used effectively with any kind of dusting material whether it be heavy, light, sticky, or in lumps. Patented Agitators and Feeding Device prevent hanging up of powder in hopper. Powerful air blast breaks up the powder into fine dust and prevents clogging of outlet. Uniform flow of powder always assured. Capacity, 5 to 10 lbs., depending on powder used. For single or double row. Price, \$14.50; postpaid, \$14.75.



MODEL D-2 DUSTER

## No. 200 D. & B. Duster

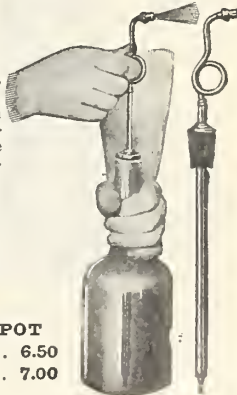


## Bottle Sprayer No. 65

HEAVY TIN, JAPANESE  
RED WATERING  
POTS (English Pattern)—  
3 qt. \$4.75; 4 qt. \$6.00;  
6 qt. \$6.50; 8 qt. \$7.00;  
10 qt. \$7.50.

Adapted to Home  
Purposes

Made of brass valves, nozzle throws a fine mist spray, is provided with cork and fits any ordinary quart bottle. Nickel plated, of fine appearance. Excellent for spraying disinfectants in homes, schools and hospitals and for plants or spraying flowers. Height 12 1/2 inches. Price \$1.25, postpaid \$1.35.



## Watering Cans

—Made of heavy galvanized iron, removable rose. 4 qt. 65c; 6 qt. 75c; 8 qt. 90c; 10 qt. \$1.00; 12 qt. \$1.25; 16 qt. \$1.50.

LONG SPOUT  
WATERING POT  
(Round Pattern) —  
Equipped with two  
copper faced roses.

one fine, one coarse, with each can. Can shaped round, made of heavy galvanized iron.

4 quart .....	\$4.50	10 quart .....	5.60
6 quart .....	4.80	12 quart .....	6.10
8 quart .....	5.25	16 quart .....	6.50

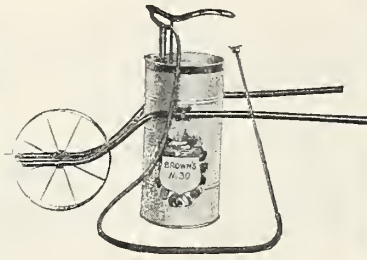
OVAL (FRENCH PATTERN) WATERING POT			
6 qt. ....	\$5.60	10 qt. ....	6.50
8 qt. ....	6.00	12 qt. ....	7.00



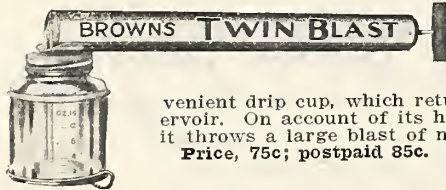
## SPRAYERS AND NOZZLES

**No. 30D  
Wheelbarrow  
Sprayer****A HANDY OUTFIT  
LIGHT IN WEIGHT**

The frame is steel, strong and durable. The pump may be quickly removed from tank and then the outfit may be used for wheeling water or slops about. Equipped with 8 feet best grade hose and 4-foot extension rod. Cannot be sent by parcel post. Price, \$15.25.

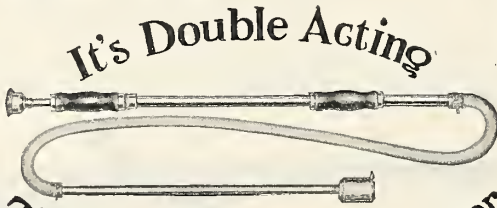
**No. 3E Auto Spray**

Adaptable to cold water painting, whitewashing, disinfecting tree and garden truck spraying, holds 200-lb. pressure, 12-gallon brass tank and air chamber. This sprayer has an air pressure tank and gauge, which enables it to be operated by one person. After filling the air pressure tank by pumping, a fine spray is produced which lasts for several minutes. This is a solidly built machine easily transported, it is perfectly adapted to any and all spray operations, including the use of insecticides and fungicides. Price, \$43.25.

**Brown's Twin Blast**

This glass reservoir, single-acting, twin jet atomizer is efficient and powerful. It has a convenient drip cup, which returns all drip to the reservoir. On account of its having two syphon tubes it throws a large blast of misty spray.

Price, 75c; postpaid 85c.

**Brown's  
Spray  
Pump  
No. 5**

All brass. A high pressure yet light and durable sprayer, made entirely of brass. It is double acting, produces a continuous spray and works from bucket, barrel, etc. Price, complete, \$5.00.

**Brown's Auto-Spray No. 9****Compressed Air Sprayer**

Sturdy compressed air sprayer, equipped with a heavy brass screw cap to lock pump in reservoir. The metal in the tank is lock-seamed, well riveted, and soldered throughout. May be obtained with brass or galvanized tank. Brass tank is strongly recommended as it will not rust and will withstand strong solutions. Capacity 4 gallons, weight packed for shipment, 10 lbs. USES—

For spraying field crops, shrubs, vines, poultry houses, for removing wall paper, disinfecting, whitewashing, creosoting shingles and for general purposes. 2-foot extension with each machine, no extra price. New solid seamless brass pump and brass ball check valve.

Auto-Spray No. 9-B, brass tank with Auto-Pop. ....\$10.50  
Auto-Spray No. 9-D, galvanized tank, with Auto-Pop. 6.95  
Parcel post weight, 12 lbs.

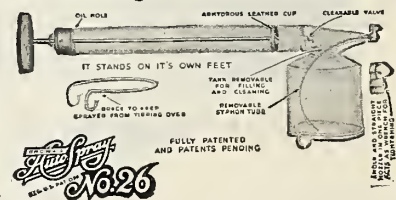
**No. 8 Auto Spray**

Most useful sprayer for general work. Capacity 8 gallons. Parcel post weight, 21 lbs. Price, \$7.50.

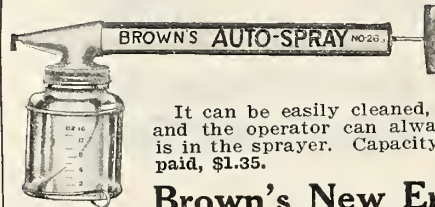
**Brown's Auto-Spray No. 50**

This sturdy little machine is entirely suitable for spraying on a small scale. It is particularly recommended for use where weight is a factor as when women folk or youngsters help out with the spraying. Built exactly the same as our 4-gallon sprayers, except tank is 2½-gallon capacity; 18-inch extension with each sprayer.

No. 50-B—Brass Tank, \$9.00; postpaid \$9.10.  
No. 50-D—Galv. Tank, \$6.00; postpaid \$6.10.

**Auto Spray No. 26C****It Sprays Continuously**

This Atomizer will spray insecticide in a continuous fog of such great volume that it will fill an ordinary room full of vapor in one minute. Unequaled for small garden and house plant sprays. Handles all insecticides, fly and mosquito exterminators and floor oils. Every household should have one of these atomizers. All brass, 1 qt., with legs. Price, \$1.50; postpaid \$1.60.

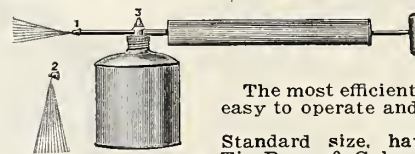
**Brown's Auto-Spray with Glass Tank**

No. 26-AG

It can be easily cleaned, will not corrode or rust, and the operator can always tell how much liquid is in the sprayer. Capacity 1 qt. Price, \$1.25; postpaid, \$1.35.

**Brown's New Era Sprayer**

A practical brass sprayer of 3 quarts capacity. The best sprayer for applying cattle sprays and is so made that the entire sprayer can be taken apart for cleaning with only simple tools. Price, \$3.25; postpaid, \$3.35.

**Robertson  
Sprayer**

The most efficient hand sprayer ever offered; easy to operate and gives a continuous spray.

**Prices**

Standard size, having one-quart container. Tin Pump & Galvanized Iron Container, \$1.25  
Brass Pump and Copper Container, 2.25

All sprayers have brass tubes and fittings. If to go by parcel post, add 10c to each.

**Sprayer Nozzles**

**NON-CLOG JR. BRASS NOZZLE**—Either straight or 45 degree angle. 75c each.

No. E1—Auto Pop Nozzle, complete, .....\$1.50

No. 136—Bordeaux Nozzle, ..... 1.00

No. 149—Leakless shut-off, ..... 1.00

No. K1—2 ft. Brass Extension, ..... .50

No. L1—Brass Elbow, ..... .35

All Nozzles Postpaid.

No. 42—3 ft. Bamboo. Price with stop cock (not mailable), ..... 3.50

No. 44—10 ft. Bamboo. Price with stop cock (not mailable), ..... 3.90

No. 46—12 ft. Bamboo. Price with stop cock (not mailable), .....\$4.30

Spray Hose, ½ inch, best made, all rubber, 18c per ft. Postpaid.

½ inch clamps for same, 5c each; 50c dozen. Postpaid.

½ inch Hose Couplings, 25c pair. Postpaid.

½ inch Male fittings, No. 137, 25c. Postpaid.

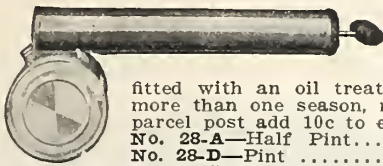
½ inch Female fittings, No. 137, 25c. Postpaid.

Non-Clog  
Jr. Nozzle.



## SPRAYERS, HOSE AND HOSE REELS

### No. 28 A, D & C Tin Sprayers



A strong atomizer made of heavy tin used for all light spraying and disinfecting. The pump of the sprayer is fitted with an oil treated leather cup that lasts more than one season, made in three sizes. For parcel post add 10c to each size.

No. 28-A—Half Pint.....\$ .35  
No. 28-D—Pint.....\$ .45  
No. 28-C—Quart.....\$ .50

### Rubber Hose, Reels, Menders, Etc.

#### MOLDED BRAIDED GARDEN HOSE

The hose we offer is the best. It is guaranteed not to break. Continuous length braided  $\frac{3}{8}$  in. hose. We can furnish any lengths. We can highly recommend this hose. 15c per foot any length without couplings. Furnished also in  $\frac{1}{2}$  inch, 1c per foot less, and  $\frac{3}{4}$  inch 1c per foot more.

$\frac{3}{8}$ -inch hose, 25 feet coupled, \$3.75; 50 ft. \$7.25;  $\frac{3}{4}$ -inch, 1c per foot more;  $\frac{1}{2}$ -inch, 1c per foot less.

#### SMITH SPRAYER NOZZLE

—Sprinkles like a watering can or straight stream. Has automatic shut-off. Price, \$1.50, postpaid.

**HOSE NOZZLES**—Combined solid stream and spray. Each 85c, postpaid. (Boston Gem.)

**RAIN KING NOZZLE**—The best yet. \$1.50, postpaid.

#### RAIN KING HOSE COUPLER

—Connects hose to either faucet, sprinkler, nozzle, or hose to hose instantly; saves time; saves the hose. This hose coupler is machined from solid brass bars and precision made throughout. Fits nozzles, sprinklers, and standard hose connections. Price, 60c, postpaid.

**HOSE MENDERS** (Sure Shot)—15c each; \$1.75 per dozen, postpaid.

**HOSE COUPLINGS**—Brass, regular size, 25c per pair, postpaid.

**HOSE WASHERS**—Rubber, regular size. 10c per dozen, postpaid.

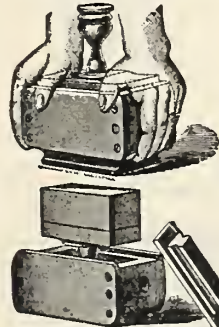
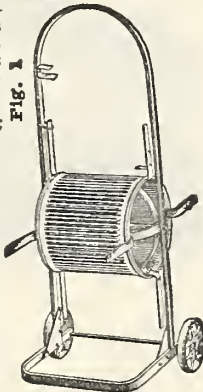
**HOSE BANDS**—For  $\frac{1}{4}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch hose. 5c each, 50c per dozen, postpaid.

**HOSE REELS**—Victor all steel cap; 75 ft. Price, \$2.50. (Figure 1.)

No. 10 TUBULAR HOSE REEL—Cap. 100 feet. Price, \$4.00.

No. 20 TUBULAR HOSE REEL—Cap. 150 feet. Price, \$5.00.

**SIAMESE CONNECTIONS**, Regular Size. Each \$1.00, postpaid.



### Baltimore Pattern Hand-Made Butter Print

This Butter Print is hand-made out of solid hardwood, and is put together with brass screws, making it indestructible. Being a two-piece print makes it very handy to use.  $\frac{1}{2}$ -lb. Sheaf of Wheat Print, \$1.25; weight, 1 lb. 1-lb. Sheaf of Wheat Print, \$1.50; weight, 2 lbs.  $\frac{1}{2}$  lb. Special Prints, carved with Initials, on application.

#### SEELEY PATTERN BUTTER PRINTER

Furnished with sheaf of wheat. Movable block.  $\frac{1}{2}$  lb. 75c. Weight, 1 lb. 1 lb. 90c. Weight, 2 lbs.

**PARCHMENT BUTTER PAPER**—Cut for pound and half-pound prints. Price, 35c per lb., postpaid 42c.

**WELLS, RICHARDSON & CO.'S BUTTER COLOR**—The best butter color on the market. Small bottle, colors 500 lbs., 35c; large bottles, 65c and \$1.00. Not mailable.

**FLOATING DAIRY THERMOMETER**—30c each, postpaid 35c.

**SO-BOS-SO FLY KILLER** (Improved)—Guaranteed to kill flies and lice on horses, hogs, cattle and mules. Price, \$1.60 gallon.

**GERMO FLY SHOO**—Make your cows and horses comfortable by using it regularly. Won't blister or injure hair. Qt. 50c; 2 qts. 75c.

**BAG BALM**—For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as Bag Balm. Price, 60c, postpaid.



Fig. 2



Fig. 3

### Rubber Plant Sprinklers

No. 28a—3 oz. angle neck. See Fig. 3. \$1.00. Parcel Post weight, 1 lb.

No. 28—Straight neck. See Figure 2. \$1.00. Parcel Post weight, 1 lb.



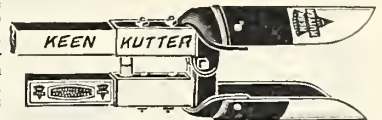
### Brooms and Brushes

Plain Corn Brooms, extra quality... .75  
Bass Push Broom, 16 inches. (See cut) ..... 1.25

Handles for Push Brooms.....25c each

### Posthole Digger

Highest Grade Crucible Steel Blades, 12 Gauge, 9 in. deep, 5 in. wide, riveted to heavy shouldered Malleable Iron Frame, with closed handle sockets, 4 in. deep; select ash handles with graduation marks in ft. burned on, from 2 to 4 ft.; will dig hole 6 in. in diameter. Price, \$2.25.



"Keen Kutter" Posthole Digger

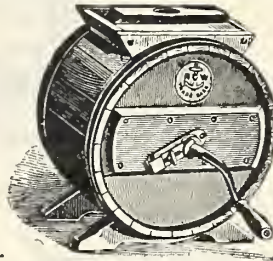
#### IMPROVED CEDAR WOOD CYLINDER CHURN

No. 1—3 gal. \$3.75.

No. 2—4 gal. \$4.50.

No. 3—7 gal. \$5.25.

No. 4—10  $\frac{1}{2}$  gal. \$6.00.



The Gonnissen Fruit Jar Opener offers a grip that has not been duplicated by any other jar opener. It works both ways, making it indispensable in canning season for sealing jars air tight. Price, 15c; postpaid, 20c.

### Grape Protecting Bags



If put on during the period when grapes are forming they will save many times their cost in the amount of fruit they will save from insects, rot, birds, etc. All ready to fasten. No. 2 the right size for our domestic grapes. Price, 10c doz.; 50c 100; \$4.25 1,000. Prices on larger bags on application.

Parcel Post weight, 2 lbs. per 100; 15 lbs. per 1,000.

Bag all grapes to keep them from insect stings.

**OIL CANS**—Holds 1 pint. Price, 15c. Postpaid, 20c. Filled with oil, 25c. This cannot be mailed.

### Rural Mail Boxes

22-Gauge Galvanized Steel. This box conforms with the latest Government rules; is much larger than the old style, for the holding of parcel post packages. Drop in end of box for depositing mail without unlocking; Red Signal raised by mail carrier to show that he has deposited mail in the box. Price, \$3.50. Parcel post weight, 25 lbs.





## SKINNER SYSTEM SPRINKLERS

COMPLETE CATALOG ON REQUEST

Rain Wave Automatic  
Sprinkler

This miniature Skinner System weighs only 17 pounds, yet does the work of a sixty-foot line automatically. The sixteen silver stream nozzles in the arch wave slowly back and forth distributing that fine, even spray which has made silver stream nozzles famous.

With simple, easily made adjustments, you can water from 10 x 60 to 60 x 60 feet or have a stationary sprinkler.

Price, \$35.00, f. o. b. Baltimore.

Information on Skinner System longer lines sent on request.

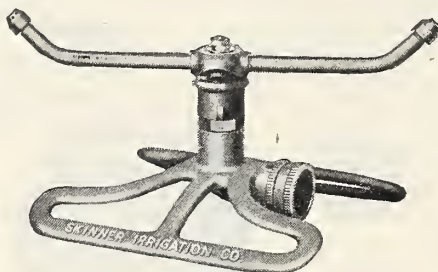
## The Mor-Rain

A very high grade rotary sprinkler convertible to a border spray with a quickly made adjustment. In the rotating position circles up to 40 feet in diameter with an even gentle spray.

The half circle spray with its very fine mist reaching out to 18 or 20 feet is ideal for borders and shrubbery.

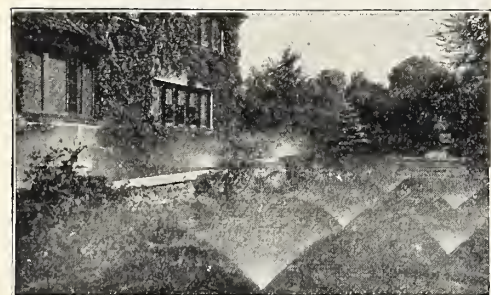
The Tobin bronze bearings fitted with Bakelite washers assure you years of service.

Price, \$3.00; postpaid, \$3.15.

Lawn  
Irrigation

Concealed heads buried in the lawn. Fed by underground piping. Controlled by the turn of a valve. Heads cover 20-ft. circle.

All brass. Furnished in full, half and quarter circle.



Prices: FS. Pop-Up Type Head.....\$6.00 each  
No. 3 Pop-Up Type Head..... 2.50 each  
No. 1 Stationery Head..... 1.00 each

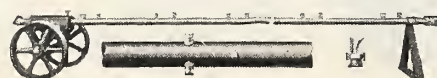
## Lawn Mist Sprinklers

These lifetime sprinklers cover with a fine mist, spaces 16 x 20 ft. No finer spray can be used successfully out of doors. For newly seeded lawns, rock or formal gardens, the Lawn Mist produces the ideal spray.

Total length 15 ft. Weight 20 lbs. Express shipment recommended.

Price, \$12.50, f. o. b. Baltimore.

LAWN MIST JR. operates exactly like the larger Lawn Mist. Length 8 1/4 ft. Wt. 13 lbs. Price, \$3.00, f. o. b. Baltimore.



## The Peacock

A particularly beautiful as well as very popular sprinkler. The fan-shaped spray coming from the spiral groups of silver stream nozzles resembles the spread of a peacock's tail, hence the name.

The Peacock Sprinkler is 12 1/2 feet long and can be used singly or in tandem. Each sprinkler covers a space 15 x 50 ft. Price, \$15.00, f. o. b. Baltimore.



## THE PEACOCK JR.

is 7 feet long, doing the same work as the larger one on a smaller scale. Price, \$8.50, f. o. b. Baltimore.



## Garden Irrigation



Irrigation lines cover 50 ft. wide at 30 lb. pressure.

Require 7 gals. per minute per 100 feet.

Complete and ready to use.

Automatic oscillator, \$25.00 additional.

Full Instruction Sheet Furnished

## Stationery Lines      Portable Lines

50 Foot .....	\$15.75	\$17.75
100 Foot .....	25.75	33.75
150 Foot .....	36.75	50.75
200 Foot .....	48.75	68.75
250 Foot .....	69.75	91.00

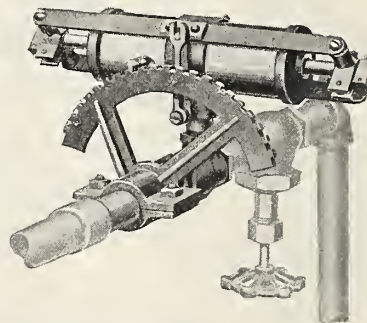
F. O. B. Factory.

## Type "C" Oscillators

POWERFUL — DEPENDABLE

## Six Features

1. Operates without reduction of pressure on the sprinkling line.
2. Swinging nozzle exhaust, avoids puddling from the waste water.
3. All wearing parts easily and cheaply renewed.
4. Positive valve throw.
5. Large cylinder area. Leverage principle multiplies power.
6. Can be set to water any part of ground covered by the nozzle line.



The Type "C" oscillator will turn any length line up to and including five hundred feet. Can be started and stopped by the turn of a small valve and is easily adjusted to cover any desired width.

Prices . . . . . \$27.50 to \$33.50 each

(According to size of turning union required)



## M.-S. PRUNING TOOLS, ETC.

### Rhodes Double-Cut Lopping Shears

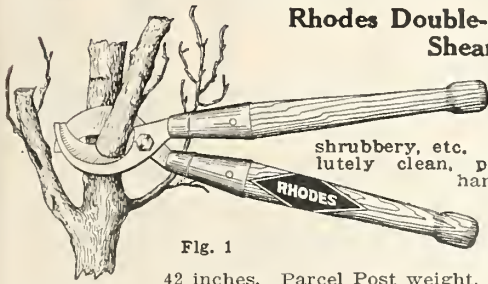


Fig. 1

42 inches. Parcel Post weight, 10 lbs. Price, \$6.50.

Fig. 1. For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut: 26 handle. Price \$5.00. Parcel Post weight, 5 pounds. Extra Heavy — For brush and dehorning cattle.

### RHODES LONG-HANDLED PRUNER

Twelve foot handle; equipped with pulley. Price \$12.00.

### THE RHODES DOUBLE-CUT HAND PRUNER

The finest cutting pruner made. One size. Length, 9 inches. Price, \$4.50, postpaid.

"Keen Kutter" Pruning Shears—Curved blade and hook. Forged steel; polished and tempered, ratchet tightening knot; extra heavy and long steel ferrules; handles riveted through ferrules and tang; 24-inch hardwood handles. Price, \$2.50. Parcel post weight, 4 lbs.

Draw Cut Pruning Shears—Made of best material, very strong and clean cutting. No. 5400—24-in. handle, \$3.25. Parcel post weight, 5 lbs.

### "KEEN KUTTER" TREE PRUNER

Made of best material. 10 ft. Price, \$2.50; 12 ft. \$2.75.

Express or freight only.



Fig. 24

Jointed Pole Tree Trimmer—Fig. 24. 12 feet long, can readily be transformed to 8 foot trimmer; made of the best material; very strong. Price, \$7.00. Parcel Post weight, 8 lbs.

Extra blades, 40c each.

No. 1 Tree Trimmer—No. 1 has a compound lever head and is made with a hook and side lever. It is calculated for light and heavy work and will cut a limb up to 1 1/4 inches in diameter. 6 ft., \$5.75; 8 ft., \$6.00; 10 and 12 ft., \$6.25; 14 ft., \$6.50; 16 ft., \$6.75. Express or freight only.



No. 1 Head in Detail.

TELEGRAPH TREE PRUNER—To be attached to pole. Price \$1.50; postpaid \$1.60.

THE RHODES POLE PARAGON PRUNING SAW—For cutting large limbs high up; adjustable to any angle; 10-foot pole. Price, \$4.00. Express or freight.

Pruning Saws—Made of the very best material, either double or single cutting edge, \$2.00. Fig. 8. Weight, 2 lbs.

Pruning Knife, No. 1—Wood handle. \$1.10, postpaid. Fig. 8

Budding Knife, No. 24278—Double blade; pruning and budding; bone handle. \$1.25, postpaid.

GRAFTING WAX—1/4 lb. 15c; 1/2 lb. 25c; 1 lb. 40c.



Hotbed Thermometer—Brass point. Price, \$3.00.

Regular Thermometer—Nicely finished. Price, \$1.00.

Self-Regulating Hothouse Thermometer—Best grade, \$7.00. For Parcel Post, add 10c on any of the three listed.



## Fountain Sprinkler

Made of Heavy Brass.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, \$1.00, postpaid.

Half-Circle Sprinkler, 85c, postpaid.

## Adjustable Rain-Drop Lawn Sprinkler

### FOR UNIVERSAL USE

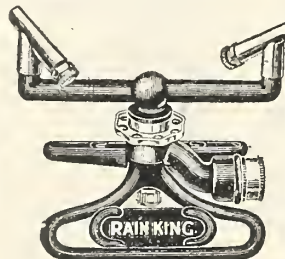
For watering along the walk or property line it is adjusted as shown in this illustration. It will throw the water away from the walk and keep it dry while wetting the curb or lawn.

Where it is desired to throw water to a distant point, the rose top can be removed and hose nozzle

### Adjustable-RAIN DROP SPRINKLER



put in its place and adjusted to throw the water where you want it. Price, complete, \$1.25, postpaid.



## Rain King Sprinklers

STANDARD—Price \$3.50, postpaid.

GIANT RAIN KING—Like Standard, but is four feet high and has four nozzles. \$12.50; postpaid, \$12.75.

MAJESTIC—Hands 15" high; very sturdy; has bird bath attached. Price \$5.00, postpaid.

BROWN'S  
Adjustable and Variable

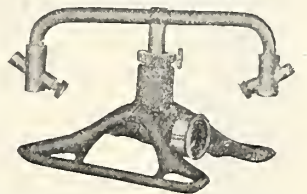
## Whirling Shower Sprayer

Adjustable from mist to drenching rain. Price \$2.75, postpaid.

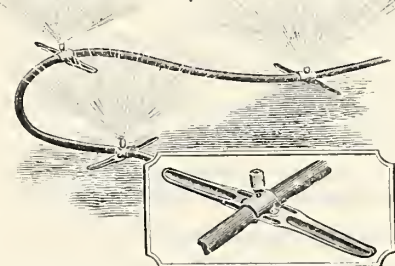
REVOLVO—Has two revolving arms, but no adjustment. Price \$1.75, postpaid.

READY SHOWERS—For small lawns where no revolving sprinkler is wanted. \$1.00, postpaid.

## Whirling Showers LAWN SPRINKLER



## MIST-O-SPRAY



New Lawn Sprinkling Method. This remarkable new system of sprinkling lawns, shrubs and flowers is simple, practical and inexpensive. For the 25 ft. garden hose, a set of three Mist-O-Spray units placed at intervals of 12 feet. For 50 ft. hose place five units at intervals of 12 feet.

Set of 3 Units.  
Per set.....\$2.95  
Postpaid.

Complete with 25 feet of hose, ready for use, \$6.50, postpaid.

## Hot Bed Mats, Sash and Glass

Hotbed Mats—Burlap covered, 40x76 size, covers one sash. \$2.00 each; 76x76, covers two. \$3.25 each. Price subject to change. Express or freight. Fig. 23.

Hotbed Glass—Box of 90 panes, 8x10. \$3.00. Price subject to change. Express or freight.

Hot Bed Sash—Made to hold either 24 or 28 8x10 pans. These sashes are grooved so that the panes slide in and butt one against the other. \$2.25 each. Price subject to change. Express or freight.

Putty Bulbs—For applying liquid putty. Fig. 22. Price, \$1.50. Parcel post wt. 1 lb.

Peerless Glazing Points—The finest glazing points on the market. Per box of 1,000, 75c. Parcel Post weight, 1 lb.

Mastica Machine—For distributing mastica, etc. Made of heavy zinc. Price, \$2.75 (by mail, 10c extra).

Mastica—For glazing greenhouses. One gallon will cover about 300 running feet. One gallon \$2.25. Weight 18 lbs.

### ASBESTOS TORCH

This is the most practical satisfactory device yet found for burning caterpillars, worms and other tree pests. Price, 60c; postpaid, 70c.



Fig. 22



**Pot and Tree Labels—All Painted**

We do not furnish plain labels, they are not satisfactory. Markings are too easily obliterated.

Width.	100	P. P. Wt.	500	1000	P. P. W.	per 1000
4"x $\frac{1}{2}$ " Pot.	\$0.30	$\frac{1}{2}$ lb.	\$1.00	\$2.00	3 lbs.	
5"x $\frac{3}{8}$ " Pot.	.35	$\frac{1}{2}$ lb.	1.25	2.20	4 lbs.	
6"x $\frac{3}{8}$ " Pot.	.40	$\frac{3}{4}$ lb.	1.50	2.50	5 lbs.	
10"x $\frac{1}{2}$ " Pot.	.75	1 lb.	3.50	5.80	10 lbs.	
12"x $\frac{1}{2}$ " Pot.	.90	2 lb.	3.75	7.00	12 lbs.	
8"x $\frac{1}{2}$ " Garden.	.75	2 lb.	3.50	6.50	9 lbs.	
10"x $\frac{1}{2}$ " Garden.	1.00	2 lb.	4.25	8.00	10 lbs.	
12"x $\frac{1}{2}$ " Garden.	1.25	3 lb.	6.00	11.00	12 lbs.	
3 $\frac{1}{2}$ " Cop. Wire Tree.	.35	$\frac{1}{2}$ lb.	1.40	2.40	4 lbs.	

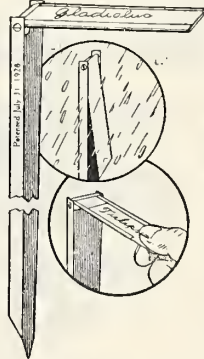


Label your plants for years to come with Simplex Celluloid weatherproof copper-wired labels.

3x1 $\frac{1}{2}$ " 50c doz.; \$3.00 per 100 postpaid.

**Peerless Plant Markers**

are Unquestionably the best thing of the kind ever invented. For marking plants in the field, greenhouse or garden. Made of galvanized metal; equipped with card. Length 18 inches. Price, \$2.00 per dozen, postpaid \$2.10; \$12.00 per 100.

**Timesaver Plant Support****The Timesaver Plant Support**

Your Flower and Vegetable Garden's Best Friend

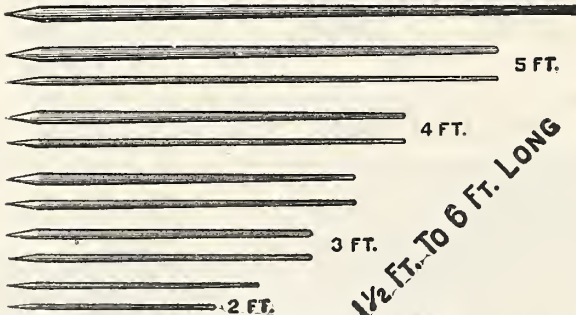
Made in different sizes. Placed and adjusted to height and to any size of loop almost instantly. For shrubbery, tomatoes, dahlias, roses, and most other vegetables and flowers grown out of doors.

Price: Per doz. No. 2, 3 ft. \$1.15; No. 3A, 4 ft. \$2.20; No. 4, 5 ft. \$2.75.

SPECIAL PEONY SUPPORT—\$2.10 per doz.

**Cemetery Bouquet Holders**

5x9 $\frac{1}{2}$  inches. Price 25c, postpaid 30c.

**GREEN PAINTED ROUND PLANT STAKES****HEAVY PLANT STAKES**

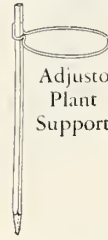
3 ft., Heavy or Dahlia. Each 12c. Per doz. \$1.15. Per 100 \$3.80  
4 ft., Heavy or Dahlia. Each 15c. Per doz. \$1.55. Per 100 \$11.40  
5 ft., Heavy or Dahlia. Each 20c. Per doz. \$2.25. Per 100 \$14.60  
6 ft., Heavy or Dahlia. Each 25c. Per doz. \$2.50. Per 100 \$17.90  
P. P. Wgt., Per Doz., 3 ft., 3 lb.; 4 ft., 5 lb.; 5 ft., 7 lb.; 6 ft., 9 lb.

**LIGHT PLANT STAKES**

1 $\frac{1}{2}$  ft., Light, each 3c; dozen 25c; 100 \$1.50.  
2 ft., Light, each 4c; dozen 40c; 100 \$2.80.  
2 $\frac{1}{2}$  ft., Light, each 6c; dozen 60c; 100 \$4.10.  
3 ft., Light, each 8c; dozen 75c; 100 \$5.40.  
Parcel Post Weight, Per Dozen, 1 $\frac{1}{2}$  ft.,  $\frac{1}{2}$  lb.; 2 ft.,  $\frac{1}{2}$  lb.; 2 $\frac{1}{2}$  ft., 1 lb.; 3 ft., 1 $\frac{1}{4}$  lb.

**Bamboo Plant Stakes**

	Doz.	100	1000
2 ft., painted green.....	\$0.15	\$0.75	\$6.50
3 ft., painted green.....	.20	1.10	9.00
4 ft., painted green.....	.25	1.50	12.00
5 ft., painted green.....	.30	1.75	13.00
6 ft., not painted.....	.35	2.00	14.00
6 ft. not painted, heavy tonkin, fine for dahlias.	Doz. \$1; 100, \$7.50		
5 ft. not painted, heavy tonkin, fine for dahlias.	Doz. 75c; 100, \$5.50		
4 ft. not painted, heavy tonkin, fine for dahlias.	Doz. 60c; 100, \$4.00		



Adjusto Plant Support

**Adjusto Plant Support**

Adjusto Plant Supports comprise a square sturdy hardwood stake equipped with a patented adjustable wire loop. Price per dozen, 3 ft., \$3.00; 4 ft., \$3.60; 5 ft., \$4.20; 6 ft., \$4.80.

Stakes Without Loops—3 ft., \$1.20 per doz.; 4 ft., \$1.40; 5 ft., \$1.80; 6 ft., \$2.40.

Extra Wire Loops, \$1.80 per dozen.

**Pointed Floral or Hyacinth Stakes**

Used for Staking Hyacinths, Tulips, Etc. Dyed Green. Price: 12-inch, 7c doz.; 35c, 100; \$2.00, 1,000; 18-inch, 8c doz.; 50c per 100; \$3.00 per 1,000.



PAT.  
Apr. 27-20

"LIGHTNING" WIRE PLANT TIE—For fastening plants to stakes, either wire or wood; can be used many times. 1,000 ties in a package. Price, \$2.50. 100 ties in a package. Price, 35c.

EUREKA STAKE FASTENERS—1,000, \$3.00; 100, 40c.

**Twines, Etc.**

Jute Twine—3-ply, 25c ball.

Binder Twine—Standard; ball, 5 lbs., \$1.25.

Fodder Twine, or Tarred Sisal—Lb. 15c. Quantity prices furnished on application.

Flax Lines—Per pair, Sisal, 60c. Weight, 2 lbs.

Garden Line—150 feet of good cotton line, 35c.

**Garden Reels**

Every gardener should have one of these handy reels. Straight rows add greatly to the looks of the garden. These reels are made of heavy iron, and will last a life time.

Price, \$1.25; postpaid, \$1.35. Price via mail, 25c extra.

**N. Y. Style Cedar Tubs**

The New York style tree tubs are made of seasoned selected Virginia white cedar, and are trimmed with specially designed metal feet, extra heavy flat steel hoops and liberal-size metal handles. These tubs are painted with the best oil paints—a handsome green on the outside and dark gray inside. Hoops, handles and feet trimmed in jet black.

New York Style.

Richmond Style.

Size.	Top Diameter Inches.	Bottom Diameter Inches.	Depth Inches.	Price Each.	Weight Each Pounds.
No. 1	12	9 $\frac{1}{2}$	10 $\frac{1}{2}$	\$2.40	9
No. 2	13	10 $\frac{1}{2}$	12 $\frac{1}{2}$	3.00	13
No. 3	14 $\frac{1}{2}$	12 7/16	14 $\frac{1}{2}$	3.75	15
No. 3 $\frac{1}{2}$	16 $\frac{1}{2}$	14 $\frac{1}{2}$	15 $\frac{1}{2}$	5.00	18
No. 4	19 7/16	17 $\frac{1}{2}$	16 $\frac{1}{2}$	5.50	21
No. 5	22 7/16	20 $\frac{1}{2}$	18 $\frac{1}{2}$	7.00	26

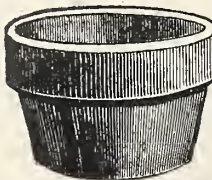
The Richmond Style—Similar to the N. Y. style, but does not have feet nor handles.

Size.	Inside Top Diameter Inches.	Inside Bottom Diameter Inches.	Inside Depth Inches.	Price Each.	Weight Each Pounds.
No. 5	10	7 $\frac{1}{2}$	9	\$0.85	3
No. 7	12	9	11	1.25	4 $\frac{1}{2}$
No. 9	14	11	13	2.00	7
No. 11	16	12 $\frac{1}{2}$	15	2.50	9

**Earthenware Flower Pots**

Sent by Express and Freight Only. Packing at Cost.

	Each.	Dozen.	100.
2 in. ....	\$0.02 $\frac{1}{2}$	\$0.20	\$1.25
2 $\frac{1}{2}$ in. ....	.03	.25	1.75
3 in. ....	.04	.30	2.00
4 in. ....	.05	.45	3.00
5 in. ....	.07	.75	5.25
6 in. ....	.10	1.10	7.50
7 in. ....	.16	1.75	13.50
8 in. ....	.25	2.50	18.50
9 in. ....	.40	3.75	27.50
10 in. ....	.50	5.00	35.00
12 in. ....	.90	9.50	70.00
14 in. ....	1.60	16.00	125.00
16 in. ....	3.00		





# Unadilla Yard and Garden Furniture

ALL FINISHED IN BEST OUTDOOR WHITE PAINT.

## BULB PANS

	Each.	Dozen.	100.
4 in. ....	\$0.05	\$0.45	\$3.00
5 in. ....	.07	.75	5.25
6 in. ....	.12	1.25	7.75
7 in. ....	.18	2.00	15.00
8 in. ....	.30	2.75	20.00
9 in. ....	.40	3.75	29.00
10 in. ....	.55	5.50	37.50
12 in. ....	1.00	11.00	82.50

## EARTHENWARE SAUCERS

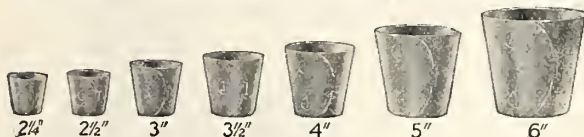
4 in. ....	\$0.04	\$0.40	9 in. ....	\$0.15	\$1.50
5 in. ....	.06	.50	10 in. ....	.18	1.75
6 in. ....	.07	.65	12 in. ....	.30	3.00
7 in. ....	.10	1.00	14 in. ....	.40	4.00
8 in. ....	.12	1.25			

## THERMOID FLOWER POT SAUCERS

All rubber; break-proof; leak-proof; furnished either green or red. Price: 4½ in., 17c; 6 in., 24c; 7½ in., 40c; 9 in., 49c; 10 in., 78c; 12 in., \$1.07. Postpaid—20c, 28c, 47c, 57c, 86c, \$1.16, respectively.



## Bird's IMPROVED NEPONSET Flower Pots



Extensively used for shipping plants, starting seeds and seedlings in frames and hot-houses.

	Doz.	100.	1,000.		Doz.	100.	1,000.
2¼ in. ....	\$0.08	\$0.50	\$3.75	4 in. ....	\$0.25	\$1.25	\$9.00
2½ in. ....	.10	.60	4.25	5 in. ....	.30	1.75	14.00
3 in. ....	.15	.70	5.75	6 in. ....	.40	2.50	18.50
3½ in. ....	.20	1.00	7.25				

Dozen and 100 lots, postpaid; 1,000 lots, add 25c.

**No. 166 Arched Gateway** makes a most attractive garden decoration. Gate is 38 ins. wide and 3 ft. high. The arched trellis is 3 ft. deep and 7 ft. high. Price, complete, with gate, \$29.00.

**No. 75 Rose Arch** is a popular type of real beauty. It has a width of 4 ft. and a depth of 2 ft. Price, \$34.00.

**No. 105 Arbor Seat**, when covered with roses or vines, provides a decidedly attractive cozy corner on any lawn or garden plot. Width, 5 ft.; depth, 2 ft. Price, \$50.00.

**No. 32 Rose Arch** is an attractive seat of graceful proportions and substantial construction. Length of seat, 4 ft.; depth, 18 ins. Price, \$43.00. Same design with back lattice, \$50.00

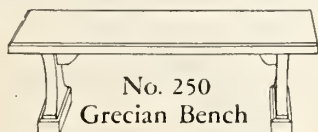
**No. 80 Rose Arch** has a depth of 2 ft. with a width of 4 ft. Price, \$12.50.

**No. 250 Grecian Bench**, placed here and there among the shady lawn nooks, make the outdoor home more attractive and enjoyable. Top width, 15 ins. 4 ft. \$10.00.

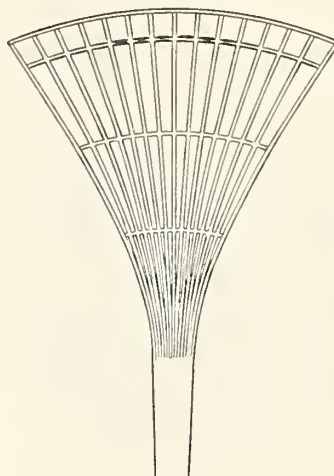
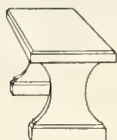
**No. 37—8 ft. Fan Shaped Trellis**, \$2.50.

**No. 77—8 ft. by 24 in. wide**, top and bottom to be attached on side of house or porch, \$2.50.

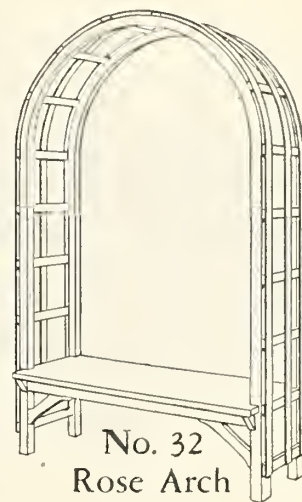
**No. 55 Rose Trellis**—6 feet high, over all, with 10 ribs and top spread of 4 feet. Sturdy construction. Price, \$5.00.



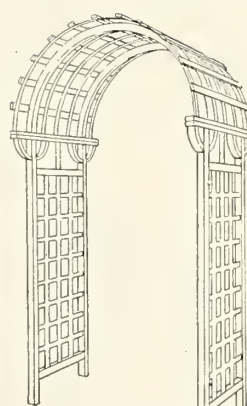
No. 250  
Grecian Bench



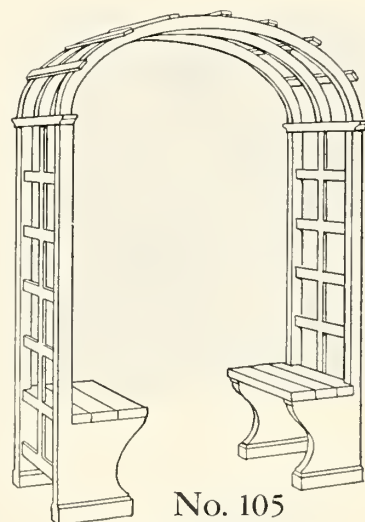
No. 55  
Rose Trellis



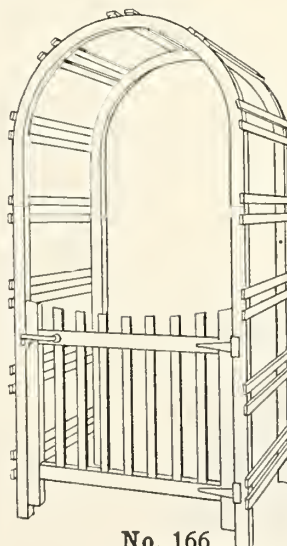
No. 32  
Rose Arch



No. 75  
Rose Arch



No. 105  
Arbor Seat



No. 166  
Arched Gateway



No. 80  
Rose Arch



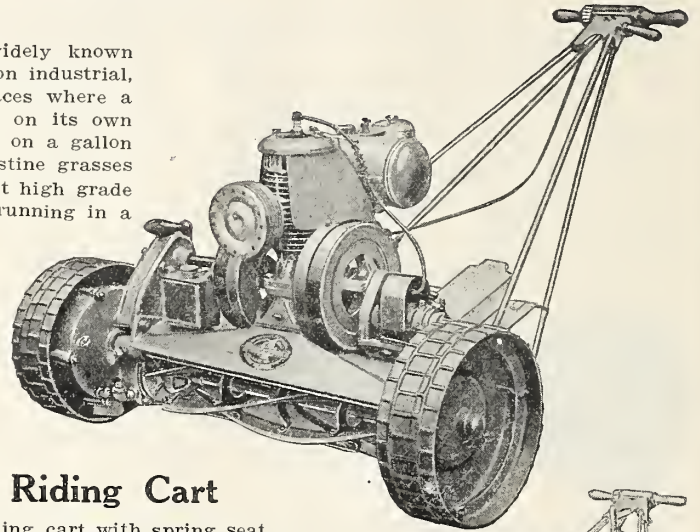
# Jacobsen Power Lawn Mowers

ALL PRICES F. O. B. RACINE, WIS.

## 4-Acre, Heavy-Duty Mower

The Jacobsen 4-Acre, Heavy-Duty Mower is the most widely known power mower in use today. It is used on large private lawns, on industrial, school and hospital lawns, in parks, cemeteries and other places where a sturdy, fast, powerful mower is required. The 4-Acre travels on its own power, the 24-inch reel cutting at the rate of four acres a day on a gallon of gas. It will cut the toughest Fescue, Bermuda or St. Augustine grasses and negotiate grades and terraces with ease. The specially-built high grade motor is modern throughout. The Mower is driven by gears running in a bath of oil and enclosed in dust-proof housings. The automobile-type differential makes steering easy about trees, flower beds, tombstones and other obstructions. Separate clutches give independent control of the cutting unit and traction wheels. The knives are sharpened by the mower's own power without removing the reel.

Price, Each.....\$285.00  
Grass Catcher Extra.....\$9.00



## Detachable Riding Cart

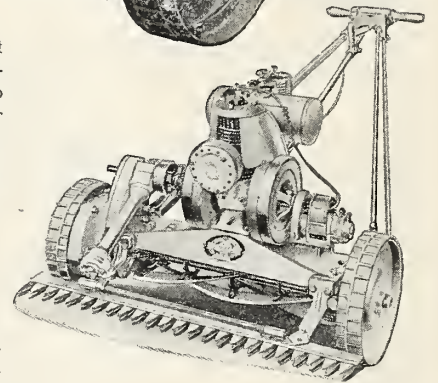
A pneumatic tired riding cart with spring seat may be had for the 4-Acre Mower. It is practical where there are long stretches of lawn to mow and increases the capacity of the mower to about seven acres a day.

Price.....\$40.00



## Sickle-Bar Clipping Attachment

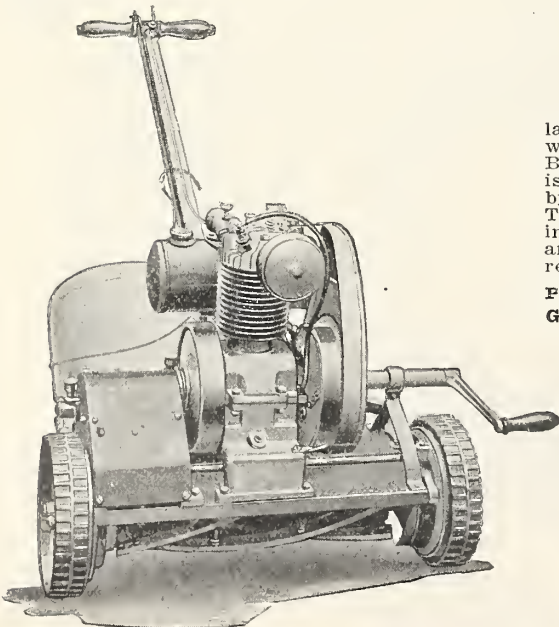
This exclusive, patented Jacobsen feature attached ahead of the reel on the 4-Acre Mower and cuts dandelions, plantain, buckhorn and other weeds or tall grass that are beyond the scope of the reel. It is an effective eradicator of weeds and has been enthusiastically received everywhere. It operates independently of the reel or at the same time. Price.....\$75.00



## Jacobsen Junior Power Lawn Mower

This mower is designed particularly for work on moderately large lawns or lawns with numerous obstructions or terraces. The cutting reel is 19 inches wide and has five crucible steel blades. The reel is mounted on Timken Roller Bearings. It will cut two or three acres a day on a gallon of gas. The Junior is a quality product throughout, worthy of Jacobsen ideals. The motor, built by Jacobsen engineers, is air cooled and has an in-built fly-wheel magneto. The Junior steers easier than a hand mower and is provided with self-sharpening attachment. Standard cone-type clutches give separate control of traction and cutting units so that the mower travels on its own power with or without revolving the cutting reel.

Price.....\$205.00  
Grass Catcher Extra.....\$6.00



Gentlemen:

We have been using Jacobsen Power Mowers for the past six years and we have found them most satisfactory and far superior to any other style of machines we have ever used. We can highly recommend them.

MR. M. L. KITZMEYER, Supt.,  
Parkwood Cemetery,  
Parkville, Md.



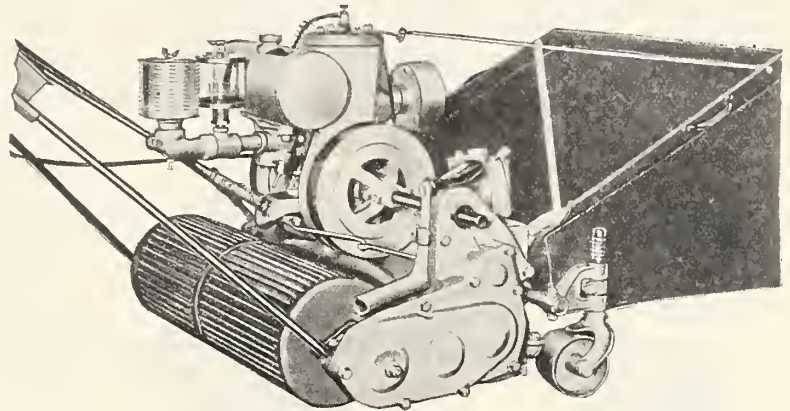
# Jacobsen "Estate" Power Mowers

(Roller Driven)

All Prices F. O. B. Racine, Wis.

This highly refined mower is designed for the fine lawns of private estates. The special 6-blade 24-inch cutting reel gives a clean, even cut and the gentle rolling effect of the traction roller is ideal for the development of a velvety turf—one that will be a source of pride to the owner. The "Estate" mower has a large, hollow, corrugated traction roller, divided at the center. The two divisions of the roller act on an auto-type differential which effects easy steering. It handles so easily that the old gardener can operate it without fatigue. The motor is the same as is used on the 4-Acre mower, and is equipped with American Bosch Magneto to effect easy starting. The mower is gear driven and has separate clutch control of traction and cutting units. In fact it includes all the refinements which have won prominence for Jacobsen Power Mowers.

Price with Grass Catcher.....\$310.00



## Jacobsen Power Putting Green Mowers

The first Jacobsen Power "Putting-Green" Mower was designed in 1923. It has been developed to a high state of perfection, and today completely overcomes all the objections to power mowers, on putting-greens that have been made in the past. How well it has succeeded is evidenced by the fact that it is now considered standard equipment on thousands of the finest modern greens in the country.

The fact that the Jacobsen Power Putting-Green Mower effects a saving of 50 to 75 per cent in mowing costs, produces a finer cut than any push-type mower, and gets the greens cut in time for the early players, makes it a profitable investment. Savings of from \$600 to \$2,000 in a single season have been effected by the use of this mower.

All major castings are made of high-grade aluminum... light in weight, but high in tensile strength. The mower weight is distributed over the large traction rollers, and exerts less pressure on the green than a man's foot. The traction roller is divided at the center and operates on an auto-type differential, making easy turning possible without scuffing the turf.

There are two sizes: One with a 24-inch reel, and one with a 19-inch reel. The 19-inch size is preferable for the "sporty" or undulating green. The 24-inch model is an advantage on large greens where the undulations are not pronounced.

Price with Grass Catcher—19-in. cut.....\$275.00  
Price with Grass Catcher—24-in. cut.....\$310.00

### Some Local Users of Jacobsen Mowers

U. S. Naval Academy Dairy Farm,  
Gambrills, Md.

Parkwood Cemetery,  
Parkville, Md.

Elkridge Country Club,  
Charles St. Ave.

Howard Baetjer,  
Stevenson, Md.

Wm. W. Finney,  
Churchville, Md.

Geo. R. Morris,  
Roland Park, Baltimore, Md.

City of Baltimore (Clifton Park),

F. X. Hooper Co.,  
Glenarm, Md.

Asa B. Gardener,  
Cockeysville, Md.

## The Greens Brush Attachment

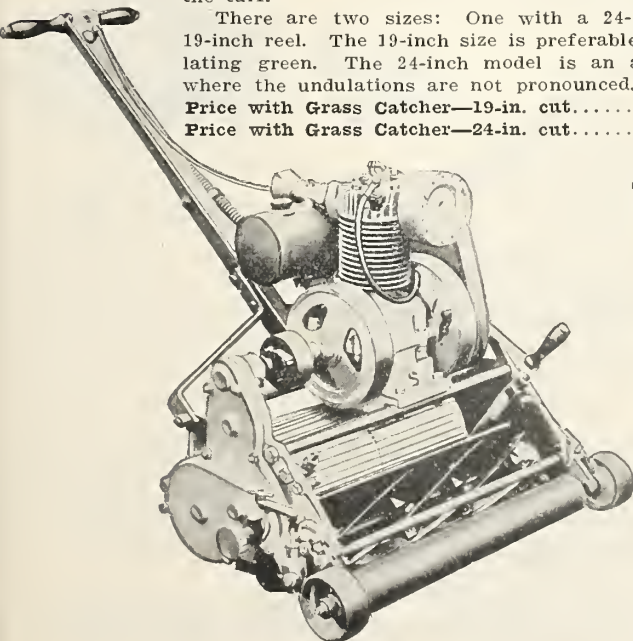
This Jacobsen feature has met with favor among greens-keepers everywhere. It keeps the grass from matting, aerates the turf and helps prevent brown patch.

Price .....\$10.00

## Putting Green Mower Transport

To convey Mower from Green to Green, etc., same is operated by power from the mower. Simple adjustment.

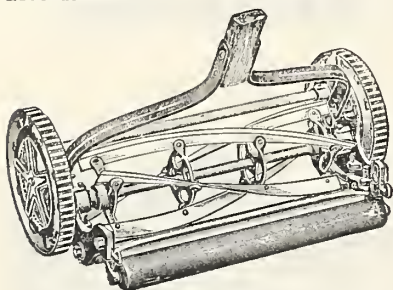
Price .....\$65.00





Our Mowers Must  
Give Results

## M.-S. RELIABLE LAWN MOWERS, ETC.



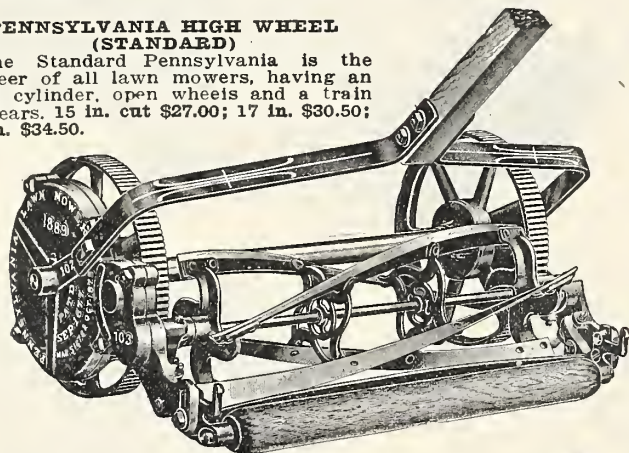
**M.-S. CRUSADER—  
(BALL BEARING)**

A light weight, four blade mower similar in design and construction to the Interstate except that the drive wheels are 9 ins. diameter. A suitable mower for ladies on account of its easy running capacity. 16 inch cut.

Special price, \$10.00.

### PENNSYLVANIA HIGH WHEEL (STANDARD)

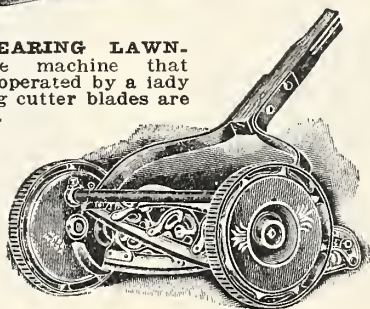
The Standard Pennsylvania is the pioneer of all lawn mowers, having an open cylinder, open wheels and a train of gears. 15 in. cut \$27.00; 17 in. \$30.50; 19 in. \$34.50.



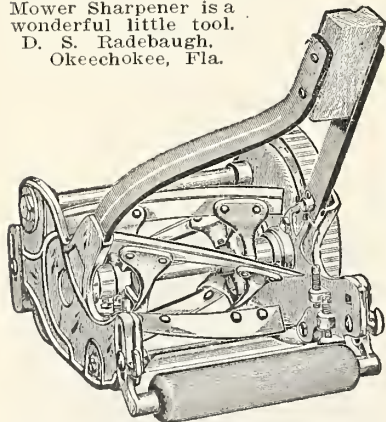
**"COLONIAL" BALL BEARING LAWN-MOWER**—A grand little machine that runs so easy that it can be operated by a lady or child. The four revolving cutter blades are made of the finest material.

#### PRICES:

12 in. \$9.50; 14 in. \$10.50;  
16 in. \$11.50.



Gentlemen:  
Your M.-S. Lawn  
Mower Sharpener is a  
wonderful little tool.  
D. S. Radebaugh,  
Okeechobee, Fla.



**COLDWELL'S BALL BEARING TRIMMER** is a very high class tool for finishing along walks, walls or flower beds, where the regular lawn mower cannot be used successfully. It accomplishes this task quickly and neatly and with very little effort. Does away with the back-breaking job of trimming with shears. Especially desirable for cemetery trimming.

#### Specifications

**Blades**—Four crucible steel.  
**Gears**—Fine cut gears in drive wheels. Pinion and pawl drive. Accurate and noiseless.

**Bearings**—Balls, finest drop-forged steel, case hardened. Cones made

from steel shafting, turned and ground for true finish.

**Wheels**—8 inch solid wheel on right side only. Small caster wheel in front on left side.

**Parts**—Malleable and cast. Best grade. Carefully machined and assembled.

**Bottom Knife**—Finest tool steel knife, self-sharpening.

**Bottom Knife Bar**—Heavy ribbed. Simple adjustment.

**Handle**—Hardwood, adjustable steel braces.

**Finish**—Golden Bronze, Maroon striping.

**Width of Cut**—8 inches only. Price, \$10.50.

**COLDWELL'S IMPROVED HORSE LAWN MOWER**—Illustrations, specifications and prices furnished on request.

### COLDWELL'S IM- PERIAL ROLLER

**BEARING**—Designed to meet the demands of park and cemetery superintendents. Durable, light running, easy to push and requiring minimum of attention to adjustments. Roller bearings enclosed in dust-proof housings. When packed with light grease will need no further oiling for the season. Best lawn mower on the market for hard service in parks, cemeteries and private grounds.

**Lightest Running**—Strongest Built.

**Wheels**—10½ inch.

**Blades**—Five.

**Bearings**—Standard Hyatt Roller.

**Gears**—Triple-pawl ratchet.

**Material and Finish**—Highest class.

**Prices:** 16 in. \$18.50; 18 in. \$19.50; 21 in. \$20.50.

**"INTERSTATE"**—Is a high grade, high wheel, ball bearing mower at a moderate price. Light and easy to handle. Has large revolving cutter, high frequency and will do a fine job of cutting with little effort.

#### Specifications

**Blades**—Four crucible steel.

**Gears**—Pinion and flat sliding pawl type. Direct drive both sides. Protected from dirt and flying grass.

**Bearings**—Balls, finest drop-forged steel, case hardened. Cones made from steel shafting, turned and ground for true finish.

**Frame**—Open type, light in weight but strong and durable.

**Wheels**—10 inches, six spokes, open style.

**Parts**—Same high grade material and accurate workmanship as used in higher priced machines.

**Bottom Knife**—Flat crucible steel, self-sharpening.

**Height of Cut**—½ to 1½ inches.

**Handle**—Hardwood, varnished. Adjustable braces.

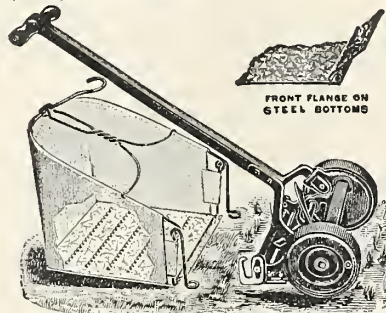
**Finish**—Blue and gold. **Prices:** 14 in. cut \$12.50; 16 in. \$13.50; 18 in. \$14.50.

**SWIFT CUTTER**—A low-priced machine for small grass plots, not ballbearing, fully guaranteed.

**Prices:** 12 in. cut \$6.50; 16 in. \$8.50.



**M. & S. Interstate**



**FRONT FLANGE ON  
STEEL BOTTOM**

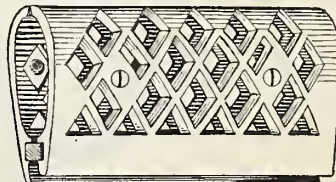
### M.-S. EASY EMPTY- ING CANVAS GRASS CATCHER

Designed to fit any size or style of mower and can be attached or detached in a moment. Made of strong canvas and galvanized iron bottom. To fit any mower. No. 5G—12 to 18 inch, \$1.25; postpaid \$1.35; No. 6G—16 to 22 inch, price \$1.50; postpaid, \$1.60.

**ECONOMY GRASS CATCHER**—A good make, but lighter than the Easy. Construction similar, fits any mower from 12 to 17 inches. No. 17G—Price, \$1.00; postpaid, \$1.10.

### M.-S. LAWN MOWER

**SHARPENER**—Can be adjusted for any thickness of blade and when properly set will give a uniform bevel, the sharpener following the twist of the knife. It will also sharpen the under blade or dead knife. Price, 75c each, postpaid.



**OVERHAULING AND SHARPENING OF LAWN MOWERS**—The best time for this is, before the actual time of lawn mowing has come. Let us do this for you. We call for and deliver the work.



# M-S. FARM AND GARDEN TOOLS

SENT BY EXPRESS OR FREIGHT,  
DUE TO LONG HANDLES.

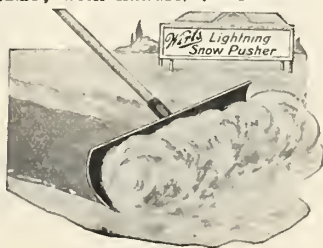


## Garden Tools, Shovels, Rakes, Etc.

Shovel, Round Point Long Handle—\$1.75.  
Shovel, Round Point, Ladies' Size—\$1.50.  
Shovel, Sq. Point D Handle No. 3—\$2.25.  
Spade, D Handle—\$1.75. Fig. 22.  
Dock Cutter No. 39-D—\$1.50.  
Spade, Ladies' or Boys' Size—\$1.50.  
Spade D Handle Nursery—Double Strap. \$4.50.  
Forks—3-tined Hay Fork, \$1.75; 4-tined, long handle, \$1.75.  
Fig. 2.  
Fork—True Temper, 5-tined Manure—D handle. Heavy. \$2.50.  
Spading Fork—True Temper—4-tined. Fig. 23. D handle. \$2.00.  
Spading Fork—True Temper. Old English, 4-tined, much heavier than the regular. Price, \$2.50.  
Hoes—True Temper—Fig. 4. Crucible steel. 6½ and 7½ in., \$1.25; 1-pronged, weeding hoe, 60c; 2-pronged, 70c. Fig. 3.  
Heart Shaped., Fig. 5. Price, \$1.25.  
Hoe, English Scuffle—6 in. \$1. No handle. Handle, 35c extra.  
Best Grade Pick—Fig. 9. Price, \$1.50; with handle, \$1.90.  
Best Grade Ax—Guaranteed article. \$2.25. Fig. 13.  
Best Grade Hatchets—Half Pattern. Best quality. Each, \$1.75.  
Best Grade Mattock—Price, \$1.50; with handle, \$1.90.  
Mattock or Grub Hoe—Price, \$1.25; with handle, \$1.65.  
Mattock, Pick and Ax Handles—Price, 40c each.  
Grubbing Hoe, One-Piece—Extra strong. Fig. No. DE38, \$1.50.  
Potato Hook, or 4-pronged Hoe—Price, \$1.25. Fig. 5a.

### LIGHTNING SNOW PUSHERS

Effective, durable, practical.  
Best steel. 20 inch \$1.75;  
24 inch \$2.00.



Graswip—The new double edged grass and weed cutter that does away with tiresome stooping. Use it—swing freely and note how rapidly the double-edged blade cuts on both the forward and backward stroke. Made of forged tool steel. Price, \$1.00, postpaid \$1.10.

Garden Tool Set—True Temper Ladies' and Children's—Fig. 8. Not toys, but tools that will do and stand the work. Price, \$3.00. Single tools: Shovel, 90c; Rake, 60c; Hoe, 75c; Spading Fork, \$1.00.

Planet Jr. Edger, No. 2—Fig. 18. Made of best material, extremely simple and easy to operate. Price, \$1.75, weight 4 lbs.

True Temper Turf, or Lawn Edger—For edging walks. Price, \$1.25. Fig. 11. See foot rest.

Rake, True Temper—Bow pattern. Fig. 6. 14-tooth. \$1.50.

Rake, True Temper—Regular pattern, 16 tooth. Price, \$1.25.

Rake, Wire Lawn—Heavily reinforced, best made, 24 teeth.

Fig. 13. \$1.00; 46 teeth, \$1.75; 24 teeth self cleaning, \$1.75.

Rake, Lawn—Ole Olson. All wood, 26 teeth, \$1.00.

Rake Leaf—All Wood, 24 teeth, three steel braces. 90c.

Rake, Lawn and Dandelion. Fig. 6a. \$1.00.

Bush Hook, Best Grade—Fig. 21. Price, \$2.00.

Scythes, Grass—30, 32 and 34 inches long. Fig. 10. Price, \$2.00.

Scythes, Weed and Bush—18, 22, 26, 28 inches long. Price, \$2.00.

Scythes, Grass—Imported. Riveted back. 32, 34, 36 in., \$2.75.

Snathes—Patent, best made. Price, \$1.75.

Whetstones—Carborundum, 35c. Talacre Stone, 25c each.

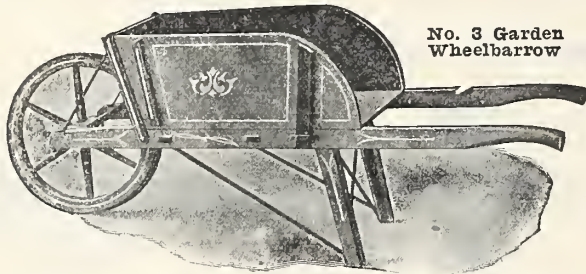
### NORCROSS CULTIVATORS AND WEEDERS

Three sizes and prices.  
Fig. 14, 5-pronged, 4 ft.  
handle, \$1.15; 3-pronged,  
4-ft. handle, 85c; "Mid-  
get," 9-in. handle, 45c.  
Weight, 3 lbs., 2 lbs.,  
12 oz.

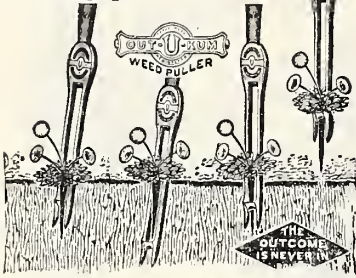




## M. - S. LAWN AND GARDEN ACCESSORIES

No. 3 Garden  
WheelbarrowThe "OUT-U-KUM" WEED  
PULLER  
An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT, with little or no clinging soil.



Price, 75c. Postpaid, 85c.  
Wonder Dandelion Digger—50c, postpaid.



Fig. 17a.

"Dandelion" Spuds—A practical weeder; long handle. Price, 35c. Fig. 17a.

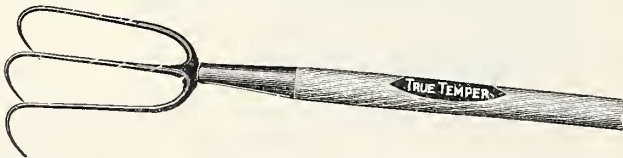


Fig. 11.

Eureka Garden Weeder—Fig. 11. 50c. Parcel Post weight, 1 lb. Same with 2 ft. handle, 60c. Fig. 11a., 4 ft. handle, 75c. Parcel Post weight, 2 lbs.

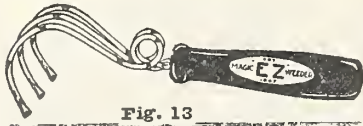


Fig. 13

Magic "EZ" Weeder—Fig. 13. No. A—Price, 15c. Parcel post weight, 1 lb. No. D—Large size, 4-tined with hoe or scraper on back. Price, 45c. Parcel post weight, 2 lbs. Style H—4 ft. handle, 3 heavy tines and blunt blade, \$1.10. Style K—4 ft. handle, 3 heavy tines and V-blade, \$1.10. Above two parcel post weight, 3 lbs. Illustration other column.

Kneeling Pads—Found most convenient and serviceable for many uses, in gardening and housekeeping. Made of best Para rubber, \$1.00 postpaid.



Fig. 21.

the garden. Price 1b. 30c. Hanks contain about 2½ lbs.; 25 lbs. or more, at 25c lb. Special price on larger quantities.

Green Raffia, 85c lb.

Red Tape for tying asparagus, 1,000 yards, \$2.75—postpaid, \$2.85.

No. 3 Wheelbarrow, for Garden and Farm Use—A durable, neat garden barrow. Size of body, 26 in. long, 19 in. wide in front, 22 in. wide at back. Sideboards, 27 in. long, 12 in. high; handles, 4 feet 9 inches long; 2x1½ in. wheel; 20 in. diameter; 6 spokes. Price, \$7.50; set up, \$8.00. Boys or Ladies' Size—\$5.00; set up, \$5.50. Farm Size—\$9.00; set up, \$9.50.

Wire Leaf Rake—Can be used with No. 3 or Farm Size Wheelbarrow, \$7.50.



Fig. 17

Asparagus Knife—Which makes a fine weeder as well. Fig. 17. Price, 40c. Weight, 1 pound.

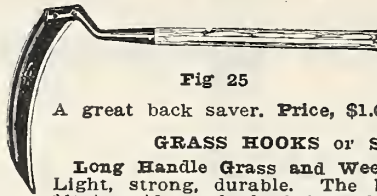


Fig. 25

A great back saver. Price, \$1.00. Weight, 2 lbs.

## GRASS HOOKS or SICKLES

Long Handle Grass and Weed Sickle—Fig. 25. Light, strong, durable. The blade 13 in. long, 2¼ in. wide at the heel, is made of crucible steel, oil tempered and sharpened to a razor edge. Weight, 2 lbs. Price, \$1.25.

Lawn Queen Grass Hook—Fully polished, best material, \$1.00. Postpaid, \$1.10.

No. 2—English Grass Hook. Riveted back. Price, 75c. Postpaid 85c.

Nowatoco Grass Hook—Price, 75c. Postpaid 85c.

German Grass Hook No. 2. Very durable; good material. 40c; postpaid 45c.



Fig. 21



Fig. 21a.

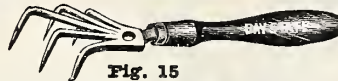


Fig. 15



Fig. 24.

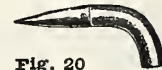


Fig. 20



Fig. 8.



Fig. 19.

Garden Fork or Weeder—Fig. 24. 50c. Weight, 1 lb. Steel Trowel D. S. T.—Fig. 21. Drop Shank, best made. \$1.00, Straight Shank, Fig. 21a, either \$1.10, postpaid.

No. 212 One-Piece Trowels—50c. Fig. 22. Postpaid 55c.

No. 215 7-Inch Trowel—Fig. 23. Price 25c; postpaid, 30c.

Excelsior Weeder—Five teeth. Fig. 15. Price, 20c; postpaid 25c.

No. 217 Transplanting Trowels—Fig. 19. Price, 25c; postpaid 30c.

Dibbles, or Planting Pegs—Bent wood handle. Fig. 20. 65c.

D. Handle Dibble, 85c. Lang's Hand Weeder—Handiest tool on earth. 25c, postpaid 30c. Garden Set (Homeland)—Consisting of trowel, weeder and cultivator made of pressed steel, very strong. Price, 50c postpaid.

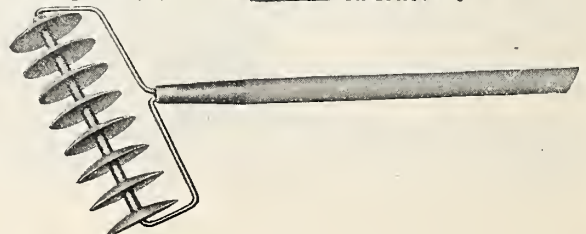
TRUE TEMPER  
BROOM RAKE

A general outdoor broom for lawns, gravel paths and gardens—is a practical necessity for every residence. Price, \$1.00; postpaid, \$1.10. Fig. 8.

Japanese Broom Rake—Price 75c, 85c postpaid; \$1.25, \$1.35 postpaid.

Gonsson Disc Cultivator—8 disc, \$1.50; 4 disc for flower garden, \$1.00.

**LANG'S  
HAND  
WEEDER**  
HANDIEST  
TOOL  
ON EARTH.





## The "Little Wonder" Hedge Trimmers—Hand and Electric Models



	Top Cut	Prices	Hand-driven	Electric
30 in. size Hedge Trimmer..		\$25.00	\$103.00	
40 in. size Hedge Trimmer..		27.50	106.50	
60 in. size Hedge Trimmer..		35.00	114.00	
Side Cutting Carriage for Hedge Trimmers .....			4.50	
Lawn Clipper Attachment for Hedge Trimmers .....			18.00	
30 in. size Lawn Weed Clipper, complete .....			35.00	
40 in. size Lawn Weed Clipper, complete .....			40.00	



Side Cut

## Simplicity Hedge Trimmer

Pruner and Trimmer, \$6.00, postpaid; Trimmer, \$4.00, postpaid. This one cuts fresh green growth only.

## Fruit Pickers

The Best Fruit Is Always Out of Reach



Peerless—For the careful picking of ripe fruit this is the best; it has no sharp end of wire exposed to injure ripe fruit. Price, 60c, postpaid 70c.

This cut almost speaks for itself—the device, being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy wire, and easily adjusted to a pole. Price 40c. 50c postpaid.

## Grass and Sheep Shears—All Postpaid

No. 346—Imported very good steel, 5½ in. 50c.

No. 355—Fine polished, 5½ in. shears. 75c.

No. 3074—Imported 5½ in. steel shears, full polished. Price, \$1.25.

No. 3075—The best shears; made of high tempered English steel. \$2.00.

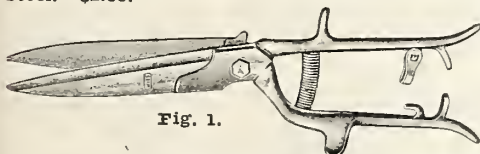


Fig. 1.

No. 600 Wiss Grass Shear, with offset handles. Fig. No. 1. Price, \$1.50.

No. 117—Pexto, like above. Does not have offset handle. \$1.00.

## THE DOO-KLIP GRASS SHEAR

No more blisters, finger ache and wrist tire. Cuts 4½ inches of light or tough grass easily. Fig. 2. \$1.00.

Doo Klip Pruner—Cuts diagonal without bruising. Fig. 3. Price, \$1.50.

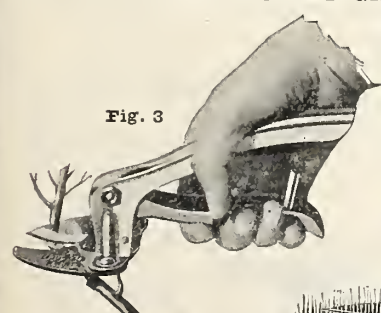


Fig. 3

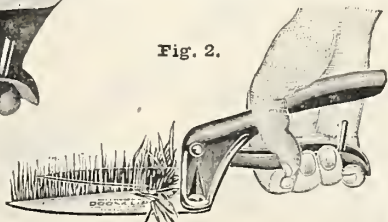


Fig. 2.



## M.S. Water Ballast Lawn and Tennis Court Rollers

No. 601—Diam. 14 in., length 24 in., weight empty 60 lbs. Price, \$17.00.

No. 602—Diam. 18 in., length 24 in., weight empty 75 lbs., weight filled with water 330 lbs. Price, \$20.00.

No. 603—Diam. 24 in., length 24 in., weight empty 110 lbs., weight filled with water 440 lbs. Price \$23.00.

No. 604—Diam. 24 in., length 32 in., weight empty 115 lbs. Price, \$26.00.

CAST STEEL ROLLER BEARING LAWN ROLLER

No. 501—Diam. 15 in., 2 sec., wt. 175 lbs., length 15", \$18.00

No. 504—Diam. 20 in., 2 sec., wt. 250 lbs., length 20", \$24.00

No. 507—Diam. 20 in., 2 sec., wt. 300 lbs., length 24", \$28.00

## Hand Pruning Shears—All Postpaid



No. 109 Wiss Hand Pruner—Strongest and best pruner made. \$3.00.

No. R-65, 9-inch—Full polished with ratchet and double flat brass spring. Price, \$1.75.

No. R-70, 9-inch—Similar to illustration, with adjusting nut and regulating ratchet, steel blades of extra quality steel. Price, \$1.50.

No. 50, 9 inch—A good pruner. Price, 90c.



No. 50



Flower Scissors, No. 576.

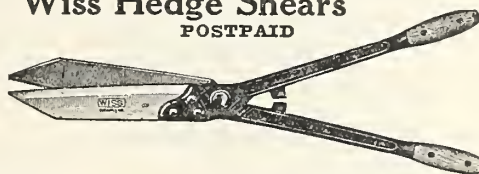
No. 576—Imported, best finished, sure to hold flower after being cut. Price, \$2.00.

No. 14, 6 inch—Ladies' pruner; full polished. \$1.25.

Flower Scissors No. 575—Nickle plated. \$1.50.

No. C-4, 7½-inch—Wiss flower thinning Shear. Used in cutting flowers, grapes, fruit, etc. \$1.25.

## Wiss Hedge Shears POSTPAID



These shears are made to meet the demand for a better-balanced, easier cutting, and more durable hedge clipper.

8, 9 and 10-inch also furnished with wooden handles.

Size ..... 6½ 7½ 8 9 10

Price, each ..... \$2.75 \$3.00 \$3.25 \$3.50 \$4.00

Solid Steel Hedge Shears—12 in. All equipped with notch; the notch is very useful in heavy trimming or lopping. Handles bolted on, cannot come apart. Parcel post weight on all hedge shears, 3 lbs.

8-inch.....\$2.25 9-inch.....\$2.50

10-inch..... 2.75 12-inch..... 3.50

Ladies' Hedge Shears—5½ inch cut. Price, \$1.50.

Lawn Shears, Imported—Two wheels, 9-inch blade, long handle for cutting on narrow borders, under fences and shrubs. Price, \$4.50. Parcel post weight, 5 pounds.

Border Shears—Same as above, but the blades are shaped vertical for trimming borders. Price, \$4.25. Parcel post weight, 5 lbs.

Hy-Lo Grass Shears No. 595—Similar to above, with long handles, but much lighter. Will do efficient work. Price, \$1.50; postpaid \$1.60.



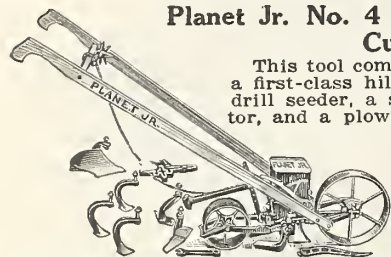
Hedge Shears—Postpaid.



## PLANET JR. FARM AND GARDEN TOOLS

Are the greatest savers of time, labor, and money ever invented for the farm and garden. They pay for themselves in a single season in bigger and better crops, and last a lifetime. Fully guaranteed.

### Planet Jr. No. 4 Combined Seeder and Cultivator



This tool combines in a single implement, a first-class hill-dropping seeder, a perfect drill seeder, a single wheel hoe, a cultivator, and a plow. It holds two quarts and sows in continuous rows, or drops in hills 4, 6, 8, 12 or 24 inches apart. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. Price, \$18.00, 50 lb.

No. 4-D (As a Seeder only). \$14.25, 40 lb.

### No. 25 Combined Seeder, Double and Single Wheel Hoe



As a seeder this tool is the same as No. 4 described above but when used as a cultivator it can be set up either as a double or single wheel hoe. Has steel frames and straddles crops until 20 inches high. Two acres a day can easily be worked, and when it is done, it will be a better job than several men could have done in the same time with hand hoes. The most complete of the interchangeable tools. Price, \$21.50, 61 lb.

No. 300 Seeder—A new tool especially adapted for beans, corn and peas. Price, \$20.00.

### The Planet Seeder Attachment No. 35

Will pay for itself in a short time because it saves seed by sowing accurately. It is very easy to operate and drills almost and kind of garden seed from the smallest up to peas and beans. It will drill a 10-cent package of seed just as accurately as a larger amount. The index is in plain view and easily adjusted. The shoe is adjustable for any depth desired and the cover swings free. Attaches to any Planet Jr. Hand Cultivator. Sent postpaid. Price, \$6.50.

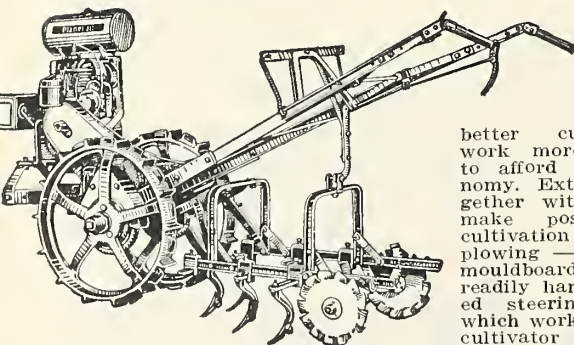
### Star Pulverizer, Weeder and Cultivator



Price, \$3.00.

The star discs break up the soil and the oscillating blade—which works forward and backward—pulverizes and levels the soil, and at the same time cuts off the weeds directly beneath the surface. Can be used right after a rain to cultivate, and will not leave the ground in a lumpy condition. 6 lbs.

### Planet Jr. Motor Cultivator

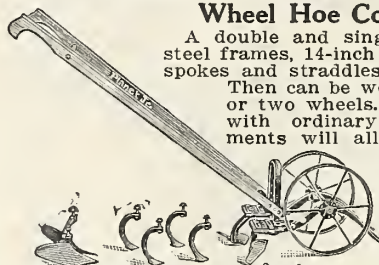


to the right, etc.), make possible fine, close cultivation—and more rapid cultivation with less effort than has been possible before. Many mechanical refinements such as Alemite lubrication, ratchet differential in the wheels, multiple disc clutch, easily changed and adjusted tool clamps and holders, Bosch magneto, ball bearings on clutch shaft, etc., add to its adaptability, durability and efficiency. Complete catalogue and price on request.

The Planet Jr. Motor Cultivator is built to a wider range of work, to do faster and

better cultivation, to work more easily, and to afford greater economy. Extra weight together with ample power make possible heavy cultivation and real plowing—a six-inch mouldboard plow being readily handled. Patented steering control which works like a horse cultivator (pressing on the right handle to turn

### Planet Jr. No. 12 Double and Single Wheel Hoe Combined



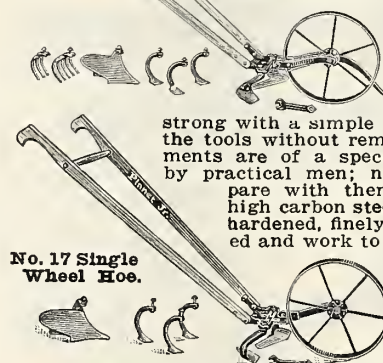
A double and single wheel hoe in one. Has steel frames, 14-inch steel wheel with heavy steel spokes and straddles crops until 20 inches high. Then can be worked between rows with one or two wheels. Does the work of six men with ordinary hand hoes. The attachments will all be found useful from the beginning to the end of the season. Price, \$10.75, 33 lbs.

No. 11 PLANET JR.—Like the above, but in addition has one pair 4½ inch hoes, two 3-tooth rakes and two 5-tooth rakes. Price, \$13.75, 39 lbs.

No. 13 PLANET JR.—Only equipped with one pair of 6-inch hoes. Price, \$8.00. The No. 12 is the most popular tool. 28 lbs.

### Planet Jr. No. 16 Single Wheel Hoe

These single wheel hoes are the highest type of their class. They have a great variety of attachments which adapt them to a large variety of work, and there is scarcely any garden cultivation they will not do. Nos. 16 and 17 have the same steel wheels, frames and handles, but the attachments sold with each vary. The handles are adjustable in height. The frame is steel, convenient and



strong with a simple device by which to exchange the tools without removing the nuts. All attachments are of a special pattern, carefully tested by practical men; no others ever offered compare with them. All the steel parts are high carbon steel, oil tempered and specially hardened, finely formed, finished and polished and work to a charm. Price, \$9.00, 24 lbs.

### No. 17 Single Wheel Hoe.

Planet Jr. No. 17 Single Wheel Hoe—Same as No. 16, but has no rakes or leaf lifter. Price, \$7.75. Weight 24 lbs.

No. 17½ PLANET JR. Equipped with hoes and

leaf lifter. Price, 6.75. Weight 21 lbs.

No. 18 PLANET JR.—Only equipped with one pair 6-in. hoes. Price, \$5.75. Weight 19 lbs.

No. 19 PLANET JR.—Similar to above, but has higher wheel (15 inch), equipped with cultivator tooth, sweep, plow and 5 prgd. cultivating attachment. Price, \$6.00. Weight 21 lbs.

### No. 119 Planet Jr. Garden Plow and Cultivator



This new member of the "Planet Jr." family is equipped so completely that it will meet all the needs of the ordinary garden. It has a 24-inch wheel 1½ inch wide. The plow is very strong, the cultivator tooth is good and wide, the 3-pronged Cultivator is excellent for breaking of the soil, the center tooth of same is removable, the scuffle hoe fine for weed cutting and the handles very strong and adjustable to suit adult or child.

Price, complete, \$4.75

Weight 17 lbs.

### "Firefly" Garden Plow

Very useful for small gardens. Will throw a furrow 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. Furrows for manure or seed can be opened and covered. Chicken raisers find it of great advantage in plowing up the scratching yards.

Weight, 14 lbs. Price, \$4.25.

72-PAGE PLANET CATALOG FREE Describes 70 tools, including Seeders, Wheel Hoes, Horse Hoes, Harrows, Orchard and Beet Cultivators. Write postal for it.



## No. 100-D Planet Jr. Plain Cultivator

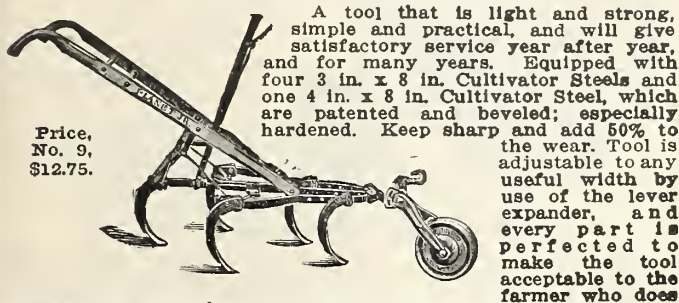
We offer this cultivator with the object of filling a definite need where lands are light or where farming is done on a modest scale. It weighs but 42 pounds. It will stand hard usage and do excellent work. A steady running tool and easy to handle and adjust. Weight, 42 lbs. Price, with wheel, \$9.25.

No. 107D—Similar to the No. 100D but has seven teeth and lever expander. Price, with wheel, \$12.75.



No. 100  
Cultivator  
with Cast  
Wheel,  
\$9.25.

## No. 9 Planet Jr. Plain Cultivator



Price,  
No. 9,  
\$12.75.

A tool that is light and strong, simple and practical, and will give satisfactory service year after year, and for many years. Equipped with four 3 in. x 8 in. Cultivator Steels and one 4 in. x 8 in. Cultivator Steel, which are patented and beveled; especially hardened. Keep sharp and add 50% to the wear. Tool is adjustable to any useful width by use of the lever expander, and every part is perfected to make the tool acceptable to the farmer who does

not want to have to buy a cultivator every few years.  
Same tool without wheel, \$10.75.

## No. 4 Planet Jr. Horse Hoe and Cultivator

This tool is low in price, strong and simple. It is the modern cultivator for either garden or field use, for furrowing, covering and cultivating. Price, with steel wheel, \$12.25; without wheel, \$10.25.



No. 4 Horse Hoe

No. 9 PLANET JR. HORSE HOE AND CULTIVATOR—Identical with the above, but has lever expander. Price, with steel wheel, \$14.25; without wheel, \$12.25.

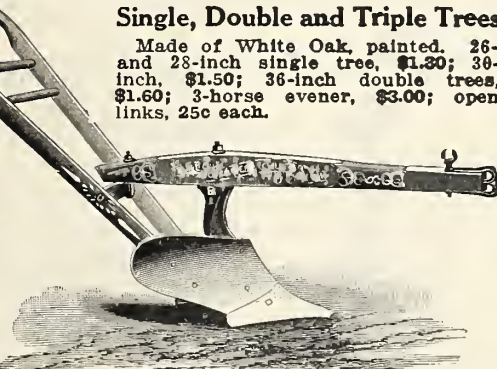
No. 7 PLANET JR. HORSE HOE AND CULTIVATOR—Same tool as No. 4 and No. 9, but is also equipped with depth regulating level wheel. Price, \$15.75.

## Single, Double and Triple Trees

Made of White Oak, painted. 26- and 28-inch single tree, \$1.30; 30-inch, \$1.50; 36-inch double trees, \$1.60; 3-horse evener, \$3.00; open links, 25c each.

U-Bar Steel Double and Single Tree, complete. 36" Double and 36" Single Trees, \$3.00 per set.

Oliver Pattern Wood and Steel Beam Plows



	Wood Beam Plow	Steel Beam Plow	Shares	Slip Shares	Lands	Mould-boards	Wood Beams
No. A	\$10.50	\$10.50	\$0.35	.....	\$0.70	\$2.10	\$3.85
No. B	12.75	12.75	.45	.....	1.00	2.75	3.85
No. 10	16.00	16.00	.60	.75	1.05	3.00	3.85
No. 13	18.00	18.00	.70	.85	1.25	4.00	3.85
No. 19	19.50	19.50	.75	.90	1.35	4.25	4.15
No. 20	21.00	21.00	.85	1.00	1.40	4.50	4.15
No. E	24.00	.....	.85	1.05	1.45	5.00	4.15
No. 40	24.00	24.00	.90	1.05	1.45	5.00	4.15

Prices for plows include extra Share and Wrench. The following are extra: Wheel, complete, \$2.00; Jointer, complete, \$4.50; Steel Beam Jointer, \$4.50. State if Wood or Steel Beam.

We can also furnish the "Syracuse" and other leading plows and the repairs. Prices will be furnished upon application.

In ordering, mention "Wood" or "Steel" beam, right or left-hand.

Single Handles, \$1.00 each. Rounds, 25c a pair.  
Bolts for Mouldboard, Landside, Shares and Jointers, 5c each.

## Planet Jr. Twelve-Tooth Harrow Cultivator and Pulverizer

No. 90, complete, \$17.00;  
No. 90-B, without pulverizer, \$13.75; No. 90-D, without pulverizer or wheel, \$10.75.

## SHOVEL PLOWS

Single Shovel Plow, \$4.20.  
Double Shovel Plow, \$4.60.  
Triple Shovel Plow, \$6.60.  
Blades for same, 16c 1b.



## Planet Jr. Cultivator Teeth.

1 1/4 x 8 in. Steels	.....	.17	3 x 8 in. Steels	.....	.22
1 3/4 x 8 in. Steels	.....	.18	4 x 8 in. Steels	.....	.27
2 1/4 x 8 in. Steels	.....	.20			

"Planet Jr." 7-inch Hind Shovel, 35c; "Planet Jr." 8-inch Hind Shovel, 40c. Bolts for all Cultivator Teeth at 5c each.

## Boss Plows and Repairs

PLOWS		SHARES	
1 Rig....Comp.	\$ 7.50	Cabbage	\$0.35
2 Rig....Comp.	8.50	1 1/2 and 2	.40
3 Rig....Comp.	9.50	2 1/2 and 3	.45
4 Rig....Comp.	10.50	No. 20	.55
MOULD BOARDS		MISCELLANEOUS	
Cabbage	\$0.35	Land Sides	\$.60
1 1/2 and 2	.70	Cleives	.40
2 1/2 and 3	.85	Bolts (All)	.05
No. 20	1.35	Standards	2.75
Board and Share	3.00	Handles (C)	1.50
Double Shares	1.00	Handles (L)	.65
		Beams	1.00

## Chattanooga Plow and Repairs No. 65

2-Horse R. H. S. Beam Plow	.....	\$20.00
Gauge Wheel	.....	2.00
Jointer	.....	4.50

SHARES		MISCELLANEOUS	
No. 65 Solid	\$0.85	Land Sides	\$1.50
No. 65 Slip	1.05	Jointer Pt	.30
Extra Slips	.20	Mould Board	4.00

## Barker Weeder, Mulcher and Cultivator



**BARKER**  
WEEDER-MULCHER-CULTIVATOR

## Barker, Jr.

Baby No. 6 is the best small garden weeder and mulcher on the market. The very low price makes it attractive. Weeds and mulches a strip 6 inches wide. Retail price, \$7.25.

No. 8 1/2 Barker Jr. weeds and mulches a strip 8 1/2 inches wide. Has three shovels, and leafguards. Price, \$7.95.

## The Barker

No. 10-D—Strong, and most useful size. Lower knife cuts ten-inch strip. Favorite for large gardens and with truck growers. Equipped with three shovels, and leafguards. Price \$10.60.

No. 11-D—Especially adapted for use where rows are fifteen inches or more apart. Weeds and mulches eleven-inch strip. Has three shovels, and leafguards. Price \$11.75.

No. 12-D—Best size where rows are two or three feet apart. Weeds and mulches a strip one foot in width. Has three shovels, and leafguards. Price, \$12.60.



## Success Flower Boxes

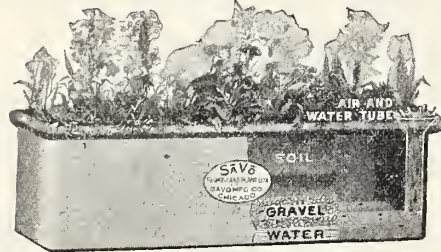


less excessively over-watered, there is paint or disfiguring in any way.

	Length.	Width.	Depth.	Each.	Postpaid.
Flower Boxes.....	24 ins.	8½ ins.	6¼ ins.	\$1.50	\$1.60
Flower Boxes.....	30 ins.	8½ ins.	6¼ ins.	1.75	1.90
Flower Boxes.....	36 ins.	8½ ins.	6¼ ins.	2.50	2.65

### Brackets for Window Boxes

No. 1—For setting on sill.....	\$0.80 per Pair, postpaid
No. 2—For hanging under sill.....	1.00 per Pair, postpaid
No. 3—For the porch rail.....	.50 per Pair, postpaid



## SaVo Boxes

Keep Plants Healthy  
the Year Round.

The most efficient  
durable and artistic  
plant box made.

Finished in Alumi-  
num or Green.

	Height.	Width.	Length.	Each.	Postpaid.
Model A.....	8 ins.	9½ ins.	23 ins.	\$3.00	\$3.15
Model B.....	8 ins.	9½ ins.	29 ins.	4.00	4.15
Model C.....	8 ins.	9½ ins.	35 ins.	4.50	4.65
Model D.....	8 ins.	9½ ins.	41 ins.	5.00	5.25

## The Perfecto Flower Box

The Perfecto Flower Box has many indorsements for growing all kinds of beautiful flowers and ferns. The reason for this is the air-circulation provided for in the construction beneath the plants, which prevents souring from excess watering.

The PERFECTO is an ornament in good taste for any home and is constructed with this purpose in view. The finish is enamel, in either of three colors—GREEN, OLD IVORY or RED. Each box shipped or delivered is packed in an individual carton to insure preservation of finish and safe delivery to purchaser.

With stand it makes an ornament for any home.

### PRICES POSTPAID

Length.	Depth.	Width.	Box Alone.	Complete With Stand.
20 inches	6 inches	7 inches	\$1.00	\$3.50
26 inches	6 inches	7 inches	1.50	4.00
32 inches	6 inches	7 inches	2.00	4.75
38 inches	6 inches	7 inches	2.50	5.50
44 inches	6 inches	7 inches	3.00	6.25

## Japanese Hull-less Pop Corn

There is hardly a home in the country where during winter popping of corn is not a pastime. Not all Pop Corn is the right kind for popping. What we offer can be relied upon for planting or popping.

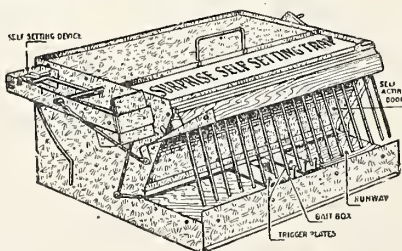


Lb. 15c. Special price in quantity.

M.-S. All Wire Corn Popper—25c. Parcel post weight, 1 lb.

## THE SURPRISE SELF-SETTING TRAP

The most wonderful trap ever invented for trapping rats, and ground squirrels. Its action is so quick that the eye can hardly see it operate, sometimes trapping a dozen to fifteen rats at one setting. The trap must be seen in action to be fully appreciated. The lightest touch on either of the trigger plates springs the trap and quick as lightning the rake sweeps over the runway, throwing the animal into the trap and instantly the trap resets itself, repeating this action ten to twelve times until run down. Price, \$6.00, postpaid.



## Grass and Clover Seed Sowers

### THE CYCLONE SEED SOWER

It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good, large sower that will meet the most exacting demands, we recommend the Cyclone.

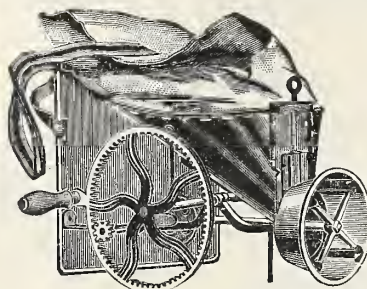


Fig. 1.



Price, \$2.25, postpaid.

### CAHOON SEED SOWER

For sowing Grasses, Clover, Timothy, Millet, Oats, Wheat, Barley, Rye, Buckwheat, etc. Standard Seeder of the World—A Model for Accuracy and Durability—Malleable Iron Frame—Steel Hopper and Gate Brass Discharger. Fig. 1. Price, \$5.00. Postpaid.

## Horn Seed Sower

Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube and the wind has no chance to blow seed into bunches before it strikes the ground. Price, \$1.00, postpaid.



## Baskets, Chains, Back Bands, Etc.

Picking Baskets—1½ bushel size with handles. \$5.25 dozen; without handles, \$4.85 dozen.

White Oak Baskets—Side handled. 1-bu. size, \$1.40; 2-bu. size, \$2.00.

Pea Bags—Used by Anne Arundel farmers for bringing peas and beans to market. 20c each. For quantities write for price.

Strawberry Boxes—1-qt. size, 10c doz.; 75c per 100. Prices per 1,000 furnished on application.

Trace Chains—7 ft., straight link, hook or ring. Price, \$1.75 pair. No. 2, cheaper grade, \$1.50.

Cow Chains—Tieing out. No. 1 20 ft. 60c; No. 00 heavier grade 20 ft. 75c; No. 00 30 ft. \$1.00; Stable ties, 4½ ft., price 50c.

Back Bands—Cotton duck with snaps 42 in. 75c each.

## Little Giant Mole Trap

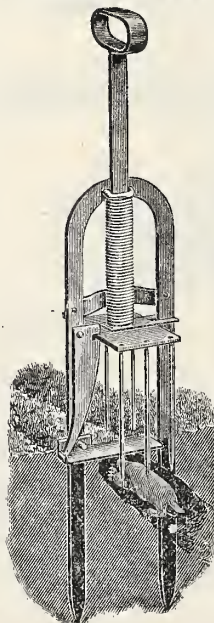
Fig. 21

The simplest, safest and surest mole trap ever invented. Self-setting. Price, \$1.00, postpaid.

MOLO—A preparation that will clear your lawn of moles and field mice in a few nights. Pkt. 25c, postpaid.

## WIRE CAGE RAT TRAPS

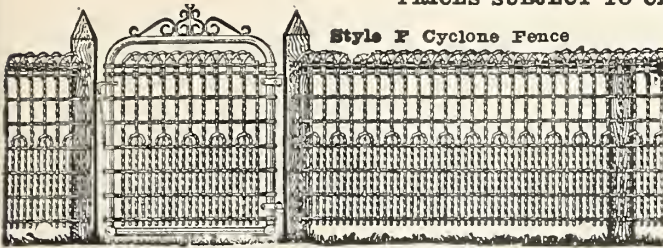
The kind that catches them alive. Price \$1.00 each, postpaid.





## NORWOOD AND AMERICAN SANITARY WIRE FENCING

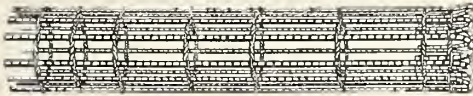
PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



Style F Cyclone Fence

No. 600 is the most popular sanitary wire fence. Pickets are all Nos. 9 and 12 heavily galvanized wire. The line wires are spaced 1 1/2 inches apart at bottom, 3 inches at top, making fence absolutely chicken tight. Regular heights are 36 inches, 42 inches and 48 inches.

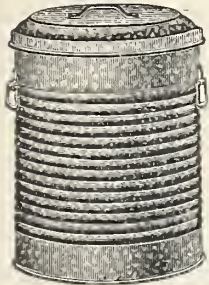
Price per lineal foot, No. 600, 36 in., 16c; 42 in., 18c; 48 in., 22c. Full 10 or 20 Rod Rolls less 10 per cent.  
Three-foot Ornamental Walk Gates to match, \$4.25 each. 3 1/2 ft. 5 per cent and 4 ft. opening 10 per cent higher.



No. 2 Tree Guard—Made of No. 7 heavily galvanized wire woven together with No. 12 galvanized cable wire, 12 inches, diameter 72 inches high. Price, \$1.50.

### Drive Gates

Single Ornamental Drive Gates 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$8.50, \$9.50 and \$11.50.  
Double Ornamental Drive Gates, 8, 10 and 12 ft., height 36, 42 or 48 in. Prices, \$9.50, \$11.50 and \$12.50.



### Storage or Ash Can

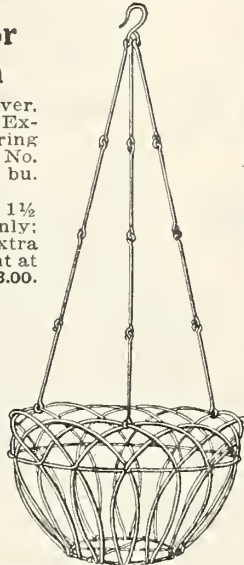
Galvanized, deep cover, rat and damp roof. Excellent for storing grain or dry mash. No. 67, capacity, 2 1/2 bu. Price, \$2.50.

No. 161, capacity 1 1/2 bu., for ashes only; constructed extra strong reinforcement at top and bottom. \$3.00.

### Wire Hanging Baskets

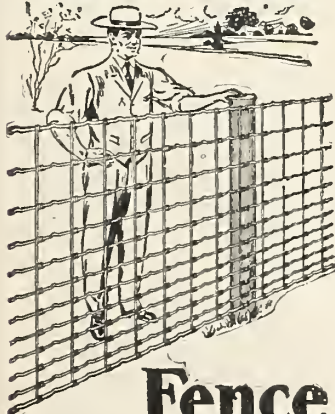
Help make the city beautiful by installing wire hanging baskets and window shelves filled with beautiful flowers. Made of good heavy wire. Painted green. See illustration.

Baskets, 8-in., 25c; 10-in., 35c; 12-in., 45c. Parcel Post weight, 2 lbs. each.



Wire Hanging Basket

## American



## Fence

Keen Kutter Post Hole Digger—See page 55.

### "AMERICAN" POULTRY AND STOCK FENCE

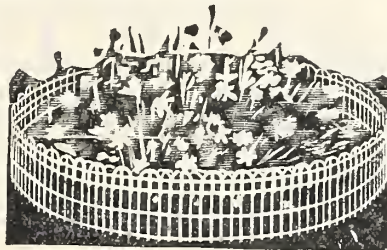
"American" Poultry and Rabbit Fence — For poultry yards, gardens, orchards and yards; it is a great favorite. 165 running feet, 48-in., \$7.25; 58-in., \$8.00.

#### Banner Poultry Fence:

36-in. 165 ft. .... \$5.25  
48-in. 165 ft. .... 6.25  
60-in. 165 ft. .... 7.25  
72-in. 165 ft. .... 8.25

#### Field Fence:

726 x 6. 165 feet..... \$6.00  
726 x 12. 165 feet..... 4.50  
1047 x 6. 165 feet..... 9.00  
1047 x 12. 165 feet..... 6.50



### Perfection Flower-Bed Guard

Fits any shape or size of flower-bed. No posts required. Cut to any length. Bottom of pickets left straight to be inserted in the ground. Made in three heights. Price per lineal foot: 16-in., 9c; 22 in., 11c; 28 in., 12c.

### Wire Trellis Fig. 2

Just the thing for climbing plants and flowers. Cut to any length; fits any porch. The most inexpensive practical trellis made. Furnished in three widths. Price per lineal foot: 18 in., 7c; 24 in., 9c; 30 in., 11c.

### Norwood Rubbish Consumers

Burns waste paper, rubbish and all combustible materials without scattering and without danger from fire.

FIG. 1

No. 2—Height 22 in.; diameter 15 in.; weight 7 lbs. Price, \$1.75.

No. 3—Height 20 in.; diameter 18 in.; weight 9 lbs. Price, \$2.25.

No. 4—Height 31 in.; diameter 21 in.; weight 12 lbs. Price, \$3.50.



FIG. 2

### Diamond Mesh Poultry Netting

Put up in rolls of 150 running feet. Galvanized after weaving.

2 in. No. 20. 1 in. No. 20.  
Wire. Wire.

1 foot .....	\$1.25	\$2.75
18 inch .....	1.75	4.00
24 inch .....	2.25	5.00
36 inch .....	3.00	7.00
48 inch .....	4.00	9.25
60 inch .....	5.00	11.25
72 inch .....	6.00	13.75

2 inch less than roll lots 1 1/2 square ft.; 1 inch, 2 1/2. Price subject to change without notice.

Poultry Wire Staples, 10c per lb.

Prices on all kinds of wire and steel goods subject to change without notice.

Illustration of 2-inch Diamond Mesh Poultry Wire

### Galvanized Steel Fence Posts

CHEAPER THAN WOOD AND MORE DURABLE—Galvanized Inside and Out

Line Post	Length—Feet.	Approx. Wgt.—Lbs.	Price.
Line Post	5	7.4	.67
Line Post	6	8.4	\$ .70
Line Post	7	10.	.80
Line Post	8	11.4	.95
10 End Post	7	51.	4.00
10 End Post	8	59.	5.00
10 Corner Post	7	75.	6.50
10 Corner Post	8	86.	7.00
Ball Tops for Line Posts			.30
Ball Tops for End and Corner Posts			.50
Driving Caps for Line Posts			.55



American Galvanized Steel Fence Post.



# Amazing New Line of BUCKEYE INCUBATORS

## The World's Best Incubators

We Carry a Full Line of  
Incubator and Brooder Repair Parts.

The new line of Buckeye Incubators affords a range of capacity from 75 to 576 eggs. This meets the demand expressed today by users of domestic incubators.

**Cypress Cabinets**—All of the machines are constructed of cypress—the best material ever found for incubators. It will not warp. It will not crack nor pull apart. It will not retain the odors of hatches.

**Beautiful Finish.** Finished in natural grain with the most

durable of varnishes. Buckeye Incubators have the appearance of beautiful furniture.

**Heavy Insulation**—The four larger models have double walls with heavy insulating material between, assuring retention of heat with the utmost fuel economy. These models also have darkening doors to provide the dark egg chamber favorable to efficient incubation.

**Patented Thermostat**—The Buckeye Patented All-Metal Thermostat insures absolute regulation of temperature. It eliminates the possibility of break-down which is likely to happen with wafer-type thermostats; for wafers may become dead through the evaporation of the liquid in them. This may occur in the midst of a hatch and ruin the whole setting of eggs. There is no such hazard with the Buckeye All-Metal Thermostat. It is absolutely reliable. No other thermostat can give Buckeye results, because the Buckeye Thermostat is patented.

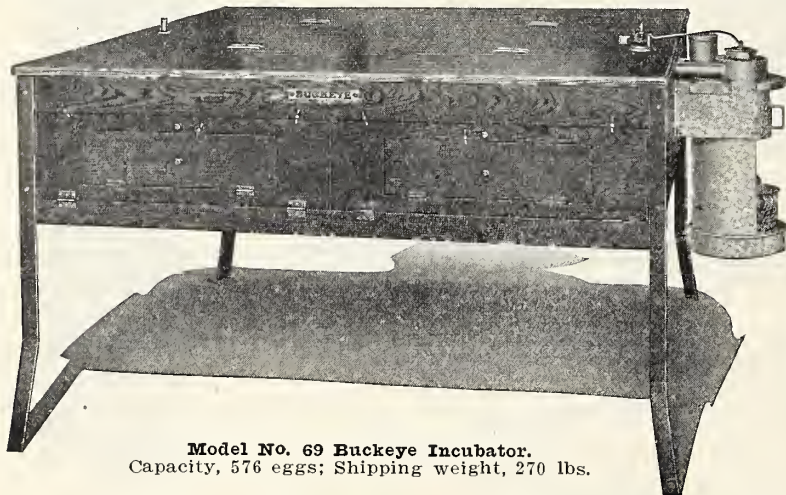
**Improved Heater**—The Buckeye heating tank is built of heavy copper. An air vent is placed in the end of the tank farthest from the boiler. This eliminates air bubbles and insures perfect circulation of the water. In the new Buckeye Incubator there can be no trouble and loss from air pockets in the heater.

**Underwriters' Label** on all models, except No. 65, as a warranty against fire hazard.

**Iron Legs** are painted to match the incubator. The flare at bottom gives extreme rigidity and adds to the graceful appearance of the incubator.

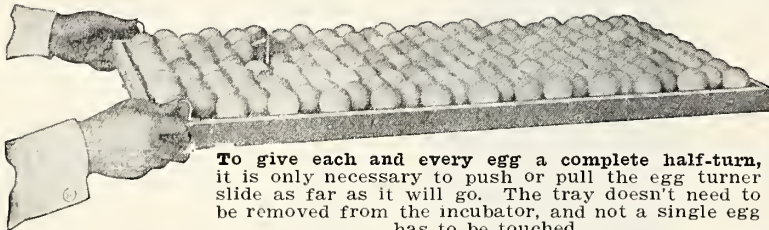
### FINISHED IN FIVE SIZES

No. 65—75 Egg Capacity.....	\$18.50
No. 66—143 Egg Capacity.....	39.50
No. 67—286 Egg Capacity.....	57.75
No. 68—416 Egg Capacity.....	76.50
No. 69—576 Egg Capacity.....	97.50



Model No. 69 Buckeye Incubator.  
Capacity, 576 eggs; Shipping weight, 270 lbs.

## New Automatic Egg Turners Are Standard Equipment



To give each and every egg a complete half-turn, it is only necessary to push or pull the egg turner slide as far as it will go. The tray doesn't need to be removed from the incubator, and not a single egg has to be touched.

All Buckeye Incubators, except No. 65, are now equipped with Buckeye Automatic Egg Turners. Only a moment is required to turn all the eggs. This saves time and work. It prevents chilling, adding, and breaking the eggs. The tray is strongly and simply constructed, and there's nothing to get out of order. **Egg Tester and Thermometer** furnished FREE with each Buckeye Incubator. Both of these articles are designed for the utmost convenience of operators.

## Guarantee

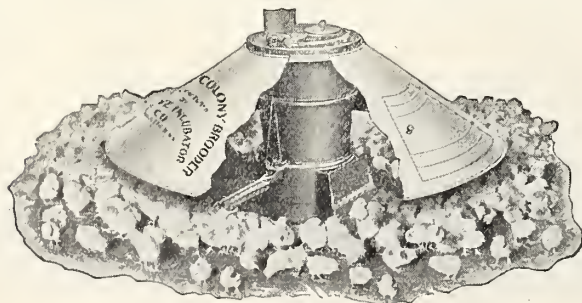
Every Buckeye Incubator is guaranteed to hatch more chicks and stronger chicks than any incubator of any other brand. The perfect construction of all mechanical parts is also guaranteed and any Buckeye Incubator or part thereof that does not fulfill our guarantee in every particular will be replaced without question any time within 40 days.

Signed: THE BUCKEYE INCUBATOR COMPANY.

## Buckeye Coal-Burning Colony Brooders

Buckeye is the pioneer colony brooder. It saves millions of chicks every year. It is saving chicks for half a million poultry raisers. It has the capacity to supply abundant heat under

extreme weather conditions. The stove is larger. It holds more coal. It burns longer with one fueling. **It burns hard coal or soft coal.** It has the famous Non-Clogging Rocker Grate. The grate is bigger—makes possible a bigger fire body. It doesn't let the fire get choked or smothered. Buckeye has a Double Check Draft, thermostatically controlled. This Double Check Draft and the Thermostat Heat Regulator insure a continuous fire. The fire won't go out. It won't overheat. The wonderful Buckeye revolving hover saves work. It radiates the heat scientifically to all the chicks. **The greatest value ever offered in coal-burning brooders.**



	No. 117	No. 118	No. 119
Chick capacity .....	350	500	1000
Height of Stove .....	20"	20 3/4"	23 3/4"
Diameter of Base .....	11"	12 13/16"	13 1/2"
Diameter of Grate .....	8 1/4"	9 3/16"	10 9/16"
Diameter of Canopy .....	42"	52"	56"
Coal capacity .....	23 1/2 lbs.	36 lbs.	58 lbs.
Smoke Pipe .....	4"	5"	5"
Shipping weight .....	75 lbs.	95 lbs.	130 lbs.
Price .....	\$15.75	\$21.00	\$26.00



# BUCKEYE COLONY BROODERS OIL BURNING AND ELECTRIC

## Buckeye "Rite-Heat" Oil-Burning Brooder



Newly designed and perfected, large capacity, oil-burning brooders. The improved stove has two baffle plates, greatly increasing heating efficiency. The newly designed burner has an exclusive new flame spreader that throws the flame down and out to the sides of the stove. And the perfected "Rite-Heat" has a special double pre-heating chamber, thoroughly heating the air before it reaches the burner—an improvement that enables the flame to burn continuously even at a very low rate. The flame won't flare up. It won't go out. The new smoke pipe cap and a back draught check damper prevent back draughts from reaching the flame.

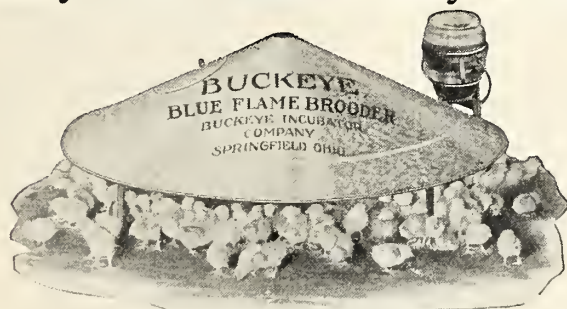
The new "Rite-Heat" burner bowl has an overflow pipe for any excess oil that may be supplied to the burner.

The improved thermostatically controlled Heat Regulator insures ideal temperature under the hover. It has a new sight feed showing at a glance how much oil is being delivered to the burner. The Revolving Hover is a remarkable labor-saver and a marvelous heat deflector.

"Rite-Heat" saves chicks where other oil-burning brooders fail. Safe; dependable; durable; economical.

	No. 103	No. 104
Capacity .....	500	1200
Diameter of Canopy .....	52"	62"
Shipping Weight .....	108 lbs.	118 lbs.
4-Gallon Metal Oil Container.		
Prices .....	\$33.50	\$37.50

## Buckeye Blue Flame Colony Brooder



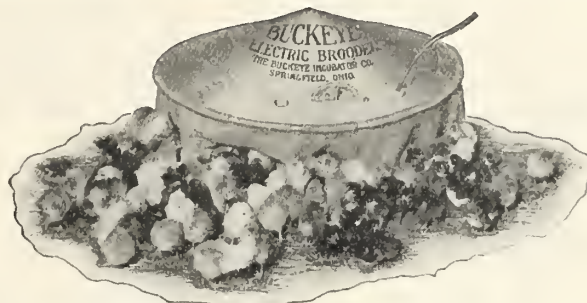
An ideal oil-burning brooder for heated or warmly constructed brooding houses. Has a powerful burner; a self-feeding oil container, holding one gallon of oil. Galvanized steel hover supported by cast-iron legs, and equipped with "Diafram" Heat Conveyor which distributes heat uniformly and provides perfect ventilation. No complicated levers, valves or thermostats. No "oil-leveling" mechanism to contend with. Simple, easy and economical to operate.

No. 27-A	No. 30	No. 31
200 Chicks	350 Chicks	500 Chicks
Diameter 34"	Diameter 42"	Diameter 52"
Shipping weight 40 lbs.	Shipping weight 50 lbs.	Shipping weight 60 lbs.
Price, \$16.75	Price, \$17.50.	Price, \$18.50

Where a greater amount of heat is desired, we can furnish the 350-chick and 500-chick brooders with giant burners under Model Nos. 28-A and 29-A respectively.

No. 28-A.....\$19.50	No. 29-A.....\$21.00
----------------------	----------------------

## Buckeye "Electric" Colony Brooder



The Buckeye Electric Brooder gives a maximum of brooding efficiency without the disadvantages common to other brooders of this type. Generates a remarkable amount of heat with comparatively small current consumption. The heating coils are a special grade resistance wire. Designed for 100 to 125 volts A. C. It has the exclusive Buckeye Double "Diafram" Heat Diffuser; assures a more uniform distribution of heat under the hover. The control switch is thermostatically operated. Contact points won't stick. They won't burn out. Buckeye assures perfect ventilation that prevents concentration of moisture under the hover. That's important.

Ideal for poultry raisers who want to brood comparatively small flocks of chicks in warm brooder houses.

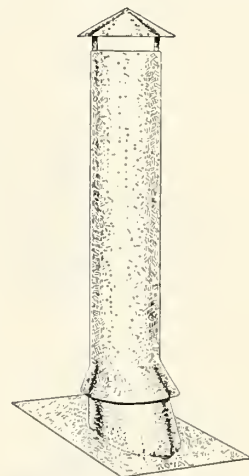
	No. 90	No. 91	No. 92	No. 93
Chick Capacity .....	50	100	200	300
Diameter of Canopy... 26"	36"	46"	56"	
Shipping Weight.....19 lbs.	49 lbs.	75 lbs.	103 lbs.	
Prices .....	\$14.50	\$19.75	\$24.75	\$29.50

## Royal Roof Flange

FOR COAL BURNING BROODER STOVES

The new Royal Roof Flange is adjustable to care for any pitch roof; is furnished complete with stack 24" high and rain cap as illustrated. Made for two sizes of pipe—4" and 5" which should be specified in ordering. It is rust proof and rain proof, being made from heavy galvanized iron. Packed two to carton. Shipping weight 11 lbs.

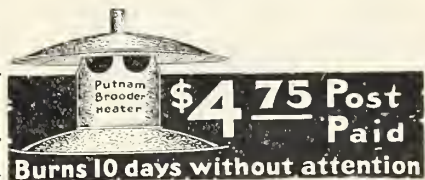
For 4" Pipe—Wgt. 7 lbs.....\$1.75  
For 5" Pipe—Wgt. 7 lbs..... 1.75



## The Putnam Brooder

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater.

The Putnam Brooder Heater is made of brass and galvanized iron. It is practically indestructible. Price of Putnam Brooder Heater Galvanized. \$4.75 postpaid. Illustrated circular on request.



WE CARRY A FULL LINE OF BROODER REPAIRS

## Guarantee

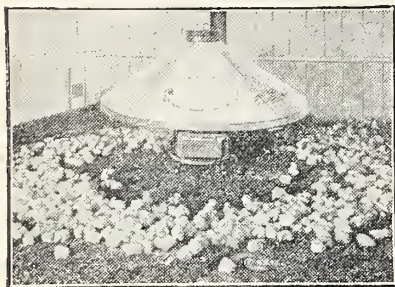
BUCKEYE Brooders are guaranteed to be exactly as represented and to do everything we claim for them. They are guaranteed to do anything that any other Brooder will do—and do it better. That's a pretty broad guarantee, but we mean every word of it. BUCKEYE Brooders are the greatest brooding devices ever invented and we are ready to prove it by permitting you to WRITE YOUR OWN MONEY-BACK GUARANTEE. We will permit you to try any BUCKEYE BROODER for 30 days under any kind of guarantee you care to write, and return your money without argument if you are not entirely satisfied.

Signed: THE BUCKEYE INCUBATOR COMPANY.



# NEWTOWN COLONY BROODERS

Will Raise Every Raisable Chick—Ask Any Owner



"A Newtown Mother"

The Newtown Coal Burning Brooder has the reputation of being the most efficient brooder made. It needs no introduction to poultrymen. It was the first coal-burning, self-feeding, self-regulating colony brooder put on the market, having been longer in use than any other of its type. It is giving efficient service in every State in the Union and eleven foreign countries, and represents the modern up-to-date brooder in the highest form of development. It is durable, easy to operate, safe, economical and labor saving.

**Construction**—Made of best grade heavy heat-retaining castings.

**Easy to Operate**—Nothing complicated—full instructions furnished with each brooder. Automatic regulator controls the drafts and no change in weather is too sudden for its adjustment.

**Safe**—Hot coals cannot roll out of the ash pit door into litter. Has a double bottom, with dead air space, and a heavy metal casting which prevents chicks from scratching litter against the hot firebowl.

**Economical**—Built to last a lifetime. Firepot and combustion chamber designed to burn all gases, greatly reducing fuel cost.

**Labor Saving**—Requires little attention. Magazine holds sufficient fuel to last 24 to 36 hours. Turning one small adjusting nut enables one to secure any desired temperature. Deflector is not disturbed in coaling. Hinged deflector lid gives easy access to ash pit door. Smoke box ell prevents soot or other foreign matter falling down smoke pipe and interfering with draft regulation.

## BIG EXCLUSIVE FEATURES

Note the cross section view of the Newtown Coal Brooder opposite. There is no brooder on the market which can be compared in any way to this brooder. When you think of these features you can see how Newtown is built to brood chicks under every emergency. It cares for all your chicks regardless of weather conditions. It burns a good grade of soft coal satisfactorily, as well as hard coal. It holds the fire and does not require constant attention. You don't have to get up at night to see if your chicks have enough heat. They're always safe and warm with Newtown.

Model.	Wt. Crated.	Chick Cap.	Coal Cap.	Dia. of Hoyer.	Dia. of Grate.	Price.
*No. 7	170 lbs.	Up to 300	37 lbs.	48 inches	11 inches	\$25.00
No. 11	220 lbs.	Up to 500	43 lbs.	50 inches	11 inches	32.50
No. 12	306 lbs.	Up to 1000	62 lbs.	56 inches	15 inches	40.00

## "A" to "Z" of the NEWTOWN

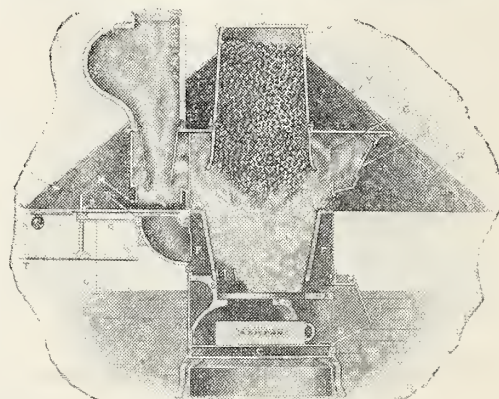
A—Grate (Ring Grate and Slide Center)  
B—Grate Rest  
C—Air Space Between Double Bottoms  
D—Sloping Surface to Ash Pit Door  
E—Ash Pit Door

F—Air Space Between Firebowl and Metal Jacket  
G—Opening Between Combustion Chamber and Radiator  
H—Radiator  
I—Observation Door  
J—Coal Magazine

K—Magazine Cap  
L—Smoke Box Ell  
M—Check Draft Opening  
N—Main Draft Opening  
O—Lower Draft Elbow  
P—Damper Discs  
Q—Regulator Support  
R—Adjusting Nut

S—Counter-Balance Weight  
T—Thermostat  
U—Thermometer  
V—Sand Ring  
W—Deflector Lid  
X—Small Door in Canopy  
Y—Canopy  
Z—Smoke Box Clean-Out

In ordering Repair Parts always give NUMBER OF BROODER STOVE AND NAME OF PART WANTED.



"A" to "Z" of the Newtown Brooder



Saves Time and Labor.

## THE NEWTOWN WICKLESS OIL BROODER

This Brooder is designed to take care of large flocks and will do everything that a Coal Burning Brooder will do. Many prefer oil because of labor and time saved in operation. This brooder has been improved and will regulate with absolute certainty, using less oil than any similar type on the market. Can be used in the coldest of weather with assurance of producing sufficient heat—easily regulated, operated and sold on 30-day money-back guarantee. MADE IN TWO SIZES ONLY.

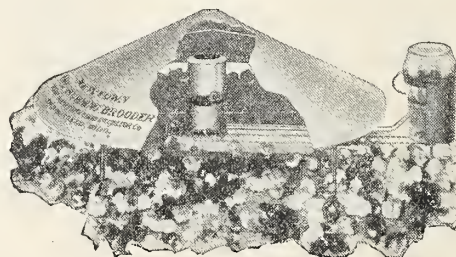
Model	Chick Capacity.	Dia. of Canopy.	Price.
No. 57	500	48 inches	\$33.50
No. 58	1000	62 inches	37.50

## THE NEWTOWN BLUE FLAME BROODER

This Brooder has been especially designed for late Winter and Spring brooding where houses are well constructed and temperature does not go below the freezing point. This brooder is economical to operate, easily controlled and has proven most successful in the hands of thousands of poultry raisers. This brooder also sold on 30-day money-back guarantee.

Model.	Chick Capacity.	Dia. of Canopy.	Price.
No. 500	200	34 inches	\$16.75
No. 501	350	42 inches	17.50
No. 502	500	52 inches	18.50

\* This model has been discontinued, but we still have a limited supply on hand, and are offering same subject to being unsold at the time ordered.



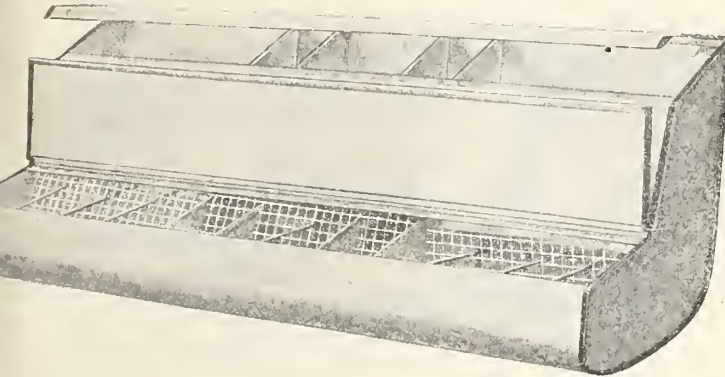


## Modern Mash Hoppers and Feeders

### New Royal Mash Hoppers

The new improved line of Royal Dry Mash Hoppers is made from extra heavy galvanized prime sheets, all parts accurately stamped with dies and all seams double seamed. The hopper being much larger at the bottom than at the top prevents clogging of feed. Holes are punched in the back of the hoppers to permit hanging on wall in a convenient place. The fowls cannot roost on hopper. When closed it is water proof and rat proof. Has adjustable screen and wire agitators; neatly trimmed with green stripe. Made in four sizes. The No. 84 is divided into five compartments, to allow for grit, charcoal and shell.

	Width.	Capacity.	Price.	Postpaid.
No. 82.....	18 inches	22 quarts	\$2.25	\$2.39
No. 83.....	24 inches	32 quarts	2.50	2.66
No. 84.....	36 inches	45 quarts	4.50	4.79



### "Cymaco" Dry Mash Feeders Fig. 1.

#### Solve the Feeding Problem

The feeder that has won the highest favor among thousands of poultry man and farmers throughout the country. The CYMACO feeder is made of the best galvanized steel with enameled steel legs to hold the feeder off the ground. The flow of the feed may be regulated by means of two thumb screws at either end of the feeder. Agitators are worked automatically by the fowls while feeding. The CYMACO accommodates twice as many hens as the ordinary hopper feeder. CYMACO is provided with a catch tray which prevents waste of feed and provides a means to close at night.

No. 12—Capacity ½ bu. Each \$2.50; postpaid, \$2.65.

No. 24—Capacity 1 bu. Each \$3.75; postpaid, \$4.00.

Patent applied for.

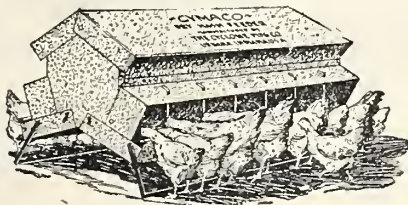


Fig. 1.

Gentlemen:

I am pleased to inform you that the chicks came to hand in first-class condition and they are a healthy looking lot.

LIEUT. T. M. STOCK.

Gentlemen:

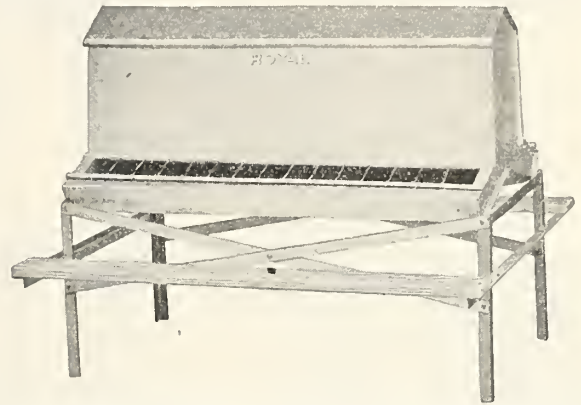
Received the 200 chicks and they are fine; raised all but two.

MRS. D. F. MARTIN,  
Walker, Md.

April 15, 1929.

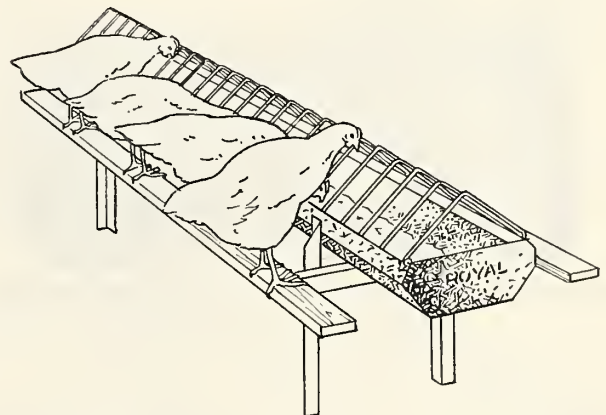
### Royal Mammoth Mash Hopper

Large capacity hopper made from heavy galvanized iron of sufficient size to accommodate full hundred pound bag of mash. Hopper is larger and wider at the top, provided with slide top which slides on heavy galvanized rolls. Stand is made from heavy galvanized angles and has wooden bars for fowls to rest on. Length of hopper, 36 inches; capacity, 100 pounds.



No. 8-S Hopper and Stand complete, packed one to crate; shipping weight, 50 pounds.

Price.....\$10.00 Not Mailable.

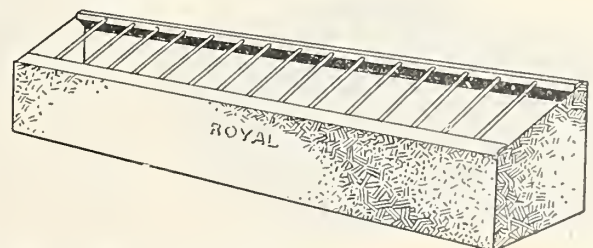


### Mash or Green Feed Trough With Stand

Made from heavy galvanized iron and furnished with heavy wire hinged top trough. Easily removed from stand for filling or cleaning. Stand made from heavy galvanized angle iron with wood perches. Three sizes for grown fowls.

No. 60—60 inch. Weight 17 lbs. Price \$3.50. Not mailable.

### Large Dry Mash Troughs



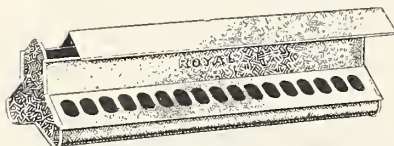
These troughs are made from heavy galvanized iron with wire stationery frame over top. Can be set on stand or hung on wall. Width 7 inches; depth in front, 5 inches; depth in rear, 7 inches.

No. 79—48 inch. Weight 12 lbs. Price, \$1.60.



## BABY CHICK SUPPLIES

### ROYAL CAPACITY CHICK HOPPERS



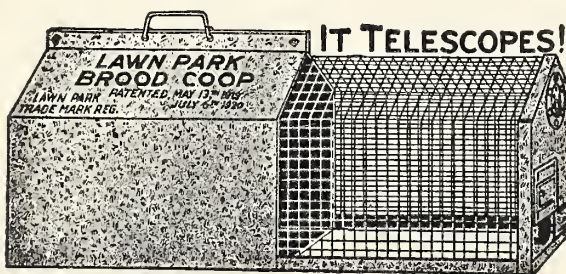
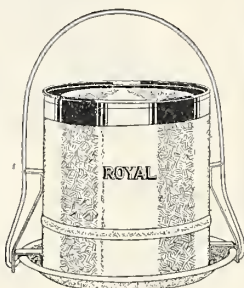
cleaned; all turned edges on feeding holes. Two sizes.

	No. Feeding Mash				
	Length.	Holes.	Capacity.	Price.	Postpaid.
No. 42.....	24 ins.	34	12 qts.	\$1.25	\$1.40
No. 63.....	36 ins.	54	18 qts.	1.75	1.90

### ROYAL 6-QUART GALVANIZER FOUNTAIN

**Extra Heavy 20 Gauge—One-Piece Pan**  
This fountain is made from extra heavy gauge iron and provided with an exceptionally heavy bail. The bottom pan is pressed from one piece of metal and is made from 20 gauge galvanized iron. Turns upside down to fill. Pan is held in place by spring tension furnished by bail and forced in place.

Capacity 6 quarts. Price, \$1.15; postpaid \$1.25.



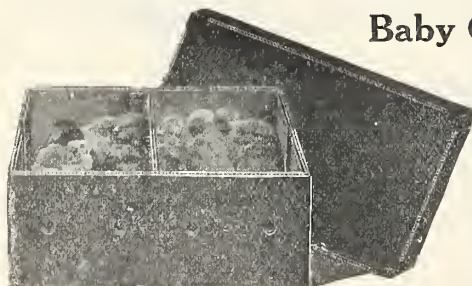
### IT TELESCOPES!

**PROTECTS THE CHICKS FROM HAWKS, RATS, WEASELS, VERMIN, COLD, STORM, ETC.**

**SAVES TIME, WORK AND WORRY.**

The "Lawn Park" Brood Coop. Pat. May 13, 1919.

The "Lawn Park" is large and roomy, being 18 inches wide, 19½ inches high, and 48 inches long, with park extended. The coop and the park are of equal length. The park permits the chicks to have plenty of sunshine and fresh air, and also allows them to range on grass. Can be moved from place to place easily, thus giving them a fresh supply daily. Coop has removable bottom for quick and easy cleaning. Made of metal; will last years. \$4.00 each. Cannot be sent by parcel post.



### Baby Chick Boxes

**BABY CHICK SHIPPING BOX—**  
Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Are shipped knocked down and take up small amount of space.

	Wt. of box.	Size.	Each.	Doz.
25 chicks .....	1	9x11x5½	20c	\$1.75
50 chicks .....	2	18x11x5½	25c	2.50
100 chicks .....	3	18x22x5½	30c	3.25



### ROYAL CHICK FEED TROUGHS

—Extra heavy slide top made from best quality prime galvanized sheets accurately formed with dies; smooth turned edges on all holes. Deep enough to hold sufficient feed for growing chicks under brooders. Strictly a quality trough. Made in 3 sizes.

No. 212—Length 12 ins.; No. of holes, 16. 25c; postpaid 35c.  
No. 218—Length 18 ins.; No. of holes, 26. 40c; postpaid 45c.  
No. 224—Length 24 ins.; No. of holes, 34. 50c; postpaid 55c.

### No. 0 Royal Jar Fountains

This Fountain will fit any Mason Jar, and is intended for feed and water. 15c each; 2 for 25c; \$1.25 dozen, postpaid.

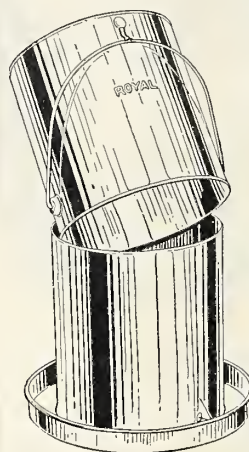
**No. 00 ROYAL JAR FOUNTAIN—**  
Same as above, but made of charcoal tin, to be used for feeding sour or buttermilk. 25c each, \$2.00 doz., postpaid.



### Royal Charcoal Tin Large Buttermilk Fountains

These fountains are made from 135 lb. charcoal tin and have two large openings, one on each side, with a piece of spring steel attached to two pieces of metal in the inside; in order to keep the milk from running out when the fountain is being filled, when the outer can is slipped down over the inner one, the pressure on these springs opens both holes and permits the feeding of all kinds of buttermilk. No reversing. Easily cleaned and filled.

No. 30—Size 1 Gal. Price, \$1.25; postpaid, \$1.35.



### ROYAL ALL-GALVANIZED FOUNTAIN

Made from heavy galvanized iron in 2 pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling.

No. 30—1 gal. Price 50c; postpaid 60c.



No. 56

**No. 56—ROUND DRY MASH FEEDER.** Capacity 1 peck. Ample feeding space. Price, \$1.25; postpaid, \$1.35.



Fig. 5

Fig. 6

**GAPE WORM EXTRACTOR—**Price, 25c, postpaid.  
**PHILADELPHIA POULTRY MARKER—**Large and small. Price, 25c, postpaid. Fig. 5

**POULTRY MARKER—**  
In shape of pliers. 25c, postpaid. Fig. 6.

**MOES POULTRY PUNCH—**Fig. 8. The best punch made, easy to handle and will not bruise the web of the little chicks foot, 50c, postpaid.

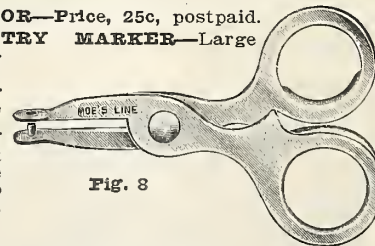


Fig. 8

### STOP CANNIBALISM—USE

### F & E CHICK PICK REMEDY

A common sense treatment for controlling and overcoming the vicious habit of Toe, Wing and Tail picking of chicks. Price 50c per can; postpaid 57c.



# POULTRY AND PIGEON FEEDERS AND FOUNTAINS

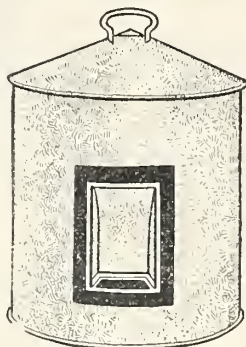
## Royal Thermic Fountains

Keeps water warm in winter. Keeps water cool in summer.

The fountain that has won the highest favor among the leading poultry men everywhere. It is indispensable on the poultry farm. Constructed similar to a fireless cooker. Has double walls packed with insulating materials to keep the water warm in winter and cool in summer. Wide inserted drinking pocket makes this fountain absolutely sanitary. Made of the finest materials and best workmanship throughout.

For cold weather fill with warm water in the morning.

This fountain will keep the water in good drinkable condition through the day. Made in three sizes.



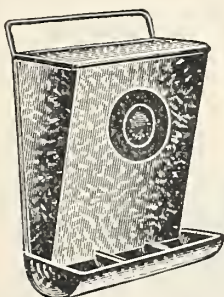
2 gal. size \$3.00 each, postpaid \$3.25.  
3 gal. size \$3.50 each, postpaid \$3.80.  
5 gal. size \$4.50 each, postpaid \$4.85.



## Royal Fountain Heaters

Made from extra heavy galvanized iron with oil fount built-in. Furnished with "no-chimney" burner which insures perfect combustion. Burns for a number of days with one filling of oil. Can be used with all Royal Fountains up to eight gallon size.

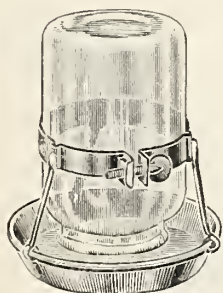
No.	Diameter.	Weight.	Price.	Postpaid.
111	11 in.	6 lbs.	\$2.10	\$2.22
114	14 in.	8 lbs.	2.65	2.79



## Grit and Shell Boxes

There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes. Can also be used as feed hoppers for little chicks. Made of heavy galvanized iron in three sizes. The No. 45 for baby chicks has a square bottom; the other sizes have round bottoms.

No.	No. of Compartments.	Weight.	Price.	Postpaid.
45	2	1 lb.	40c	47c
9	3	3 lbs.	85c	94c



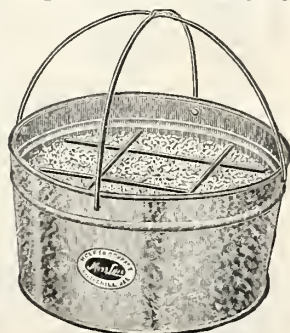
## Felker's Handy Attachment

To Be Used With Any Make of Fruit Jar. A perfect Feeder for sour milk, water, hard grain or grit. The container is

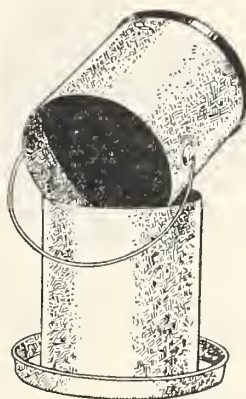
made of aluminum, the only metal in which sour milk can be fed with safety. It is rust-proof and non-corroding. The Handy is adjustable, simple to operate and durable. Every one has some kind of a quart fruit jar—the Handy fits them all. 25c each, for postage add 5c.

## Overall Mash Hopper

All steel, galvanized. Cap. 6 qts. Price, 75c, postpaid 85c.



Overall Mash Hopper



## Leader Fountain

A new Sanitary Fountain, practical to use, easy to keep clean. A saving of from 30 to 40 per cent over any fountain of its size.

Price, 1½ gal. size, 85c each; postpaid, 95c.

The 3 gal. size has two drinking spaces, making it very convenient for large pen fowl. These founts hang on the wall with two nails, one at each angle of the bail.

Price, 3 gal. size \$1.50 each; postpaid, \$1.60.

## Royal Fountains— 203, 205, 208

Made from heavy galvanized iron, double tank construction, of large capacity for grown fowls or chicks. Permits the fowls to drink all around fountain.

No. 203—3 gal. size. Price, \$1.50; postpaid, \$1.65.

No. 205—5 gal. size. Price, \$2.25; postpaid, \$2.45.

No. 208—8 gal. size. Price, \$3.00; postpaid, \$3.25.

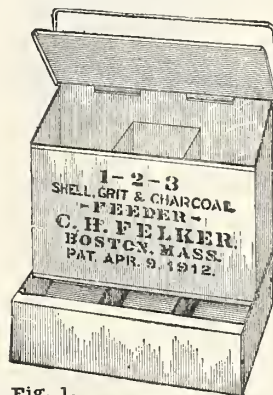
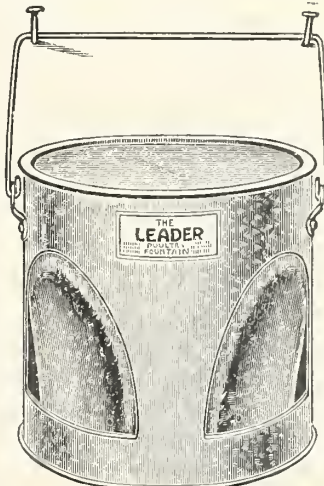


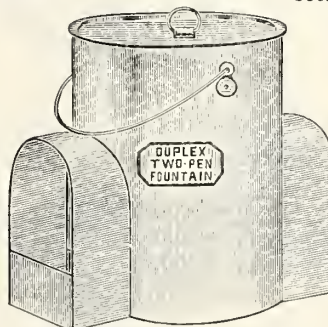
Fig. 1.

## FELKER'S "1-2-3" GRIT AND SHELL FEEDER—Fig. 1

For dry mash, scraps, shells, grit, charcoal or any poultry feed. When used for one kind of feed only, take out separator in one end; three kinds, say scraps, shell and grit, put separator in middle, and you have three separate feeders. Price, \$1.35; postpaid, \$1.45; small size, 75c; postpaid, 85c.



Fig. 3.

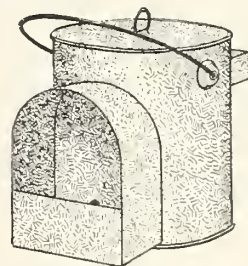


## Two-Pen Fountain.

ROYAL TWO-PIECE CLEAN-OUT WALL FOUNTAIN—A big improvement over the old style Wall Fountain. Made in two pieces. Easy to clean, dead air space between cover and reservoir keeps water cool in summer and from freezing in moderate winter weather. Price, 4-qt. size, \$1.15, postpaid \$1.25; 8-qt. size, \$1.40, postpaid \$1.50; 5 gal. \$2.75, postpaid \$2.90.

"PEERLESS" DRINKING FOUNTAIN keeps the water clean and pure. 5 qts. 90c; 10 qts. \$1.50. Fig. 3.

If to go by mail, add 10c to each size.

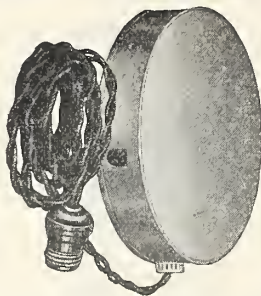


TWO-PEN CLEANOUT FOUNTAIN—Constructed with two drinking spaces. Eight quart. Price, \$1.65; postpaid, \$1.75.



## Oakes Electric Fountain Heater

Keeps drinking water from freezing even in zero weather. Safe and easy to use. No danger of fire or explosion. Cost averages about a cent a day. Used with any type fountain, pan, crock or bucket. Set water vessel on heater and turn on current. That's all there is to it! No adjusting! No regulating! No watching! Pays for itself in winter eggs. Heater is 8 inches in diameter, 1½ inches high and made of heavy galvanized metal. Built for service. Money promptly refunded if unsatisfactory after ten days' trial. Price, \$1.75; postpaid, \$1.85.



## Oakes 3-Way Electric Fountain Heater

Operates on three temperatures—high, medium and low. \$3.00, postpaid.

## Moe's Oat Sprouter

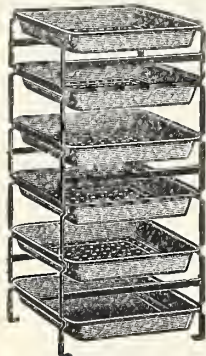
Steel frame, well braced and painted. With six heavy galvanized iron pans which are interchangeable. Provides the very necessary green feed at all seasons.

Total height, 3 ft. Size of pans, 16x18 inches.

No. 110—Oat Sprouter. Ea. \$6.00

## "Sun-Lite" Oats Sprouter

Made of galvanized iron, each 18-inch perforated pan or tray can be removed separately. No lamp or fuel required.



No. 110

No. E-62—3-tray, each ..... \$5.25  
No. E-63—6-tray, each ..... 6.50

## Leg Bands for Poultry, Pigeons, Etc.

ALL POSTPAID

Tell the age and different strains of your poultry.

Table of sizes of bands for different breeds. Order by number.

No. 1—Bantams and small Mediterranean females, etc.

No. 2—Ordinary Mediterraneans and pit game females, etc. in Bandettes and Spiralets No. 8.

No. 3—Mediterranean males, American females, pit game males. in Bandettes and Spiralets No. 11.

No. 4—American males, medium Asiatic females, turkey hens, etc., in Bandettes and Spiralets No. 12.

No. 5—Ordinary large Asiatics and tom turkeys, etc.

No. 6—Tom turkeys and geese.

**SPIRALET LEG BANDS** are made of celluloid in different colors; black, white, light blue, dark blue, red, green, yellow, brown, etc. Prices: Three Poultry Sizes to correspond with Nos. 2, 3 and 4 in above list: 12, 15c; 50, 50c; 100, 75c; 1,000, \$6.50. Pigeon and Day-Old Chick Size: 12, 10c; 25, 20c; 50c, 35c; 100, 50c.

**"SMITH SEALED" BANDS**—If you want the best be sure you get "Smith Sealed" stock numbered bands. Every band is numbered different. Prices, dozen, 35c; 25, 60c; 50, \$1.00; 100, \$1.75; 250, \$4.00; 500, \$7.75; 1,000, \$15.00.

**SEALERS FOR SEALING S. S. BANDS**—Plain, \$1.05; lettered jaw, \$1.15.

**"DOUBLE-CLINCH" LEG BANDS**—Made in Double Clinch sizes as table. A strictly reliable open or removable band. Fastens with two clinches, leaving absolutely no exposed corners, ends or loops to come loose. Prices, dozen, 20c; 25, 30c; 50, 50c; 100, 75c; 250, \$1.75; 1,000, \$6.50.

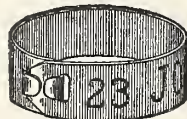
**DOUBLE-CLINCH FOR PIGEONS AND BABY CHICKS** can also be used as wing bands, in two sizes. Price, dozen, 15c; 25, 25c; 100, 70c; 1,000, \$6.00.

## CHAMPION LEG BAND



Fig. 2

**BANDS**—Fig. 2. Adjustable in two sizes. Large for American, small for Mediterranean breed. Price, dozen, 15c; 25, 25c; 50, 40c; 100, 75c; 250, \$1.75; 1,000, \$6.50.



## Little Putnam Stove for Poultry Fountains and Oat Sprouters

This little device will keep water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool proof and fire safe. Used under any can, crock or fountain.

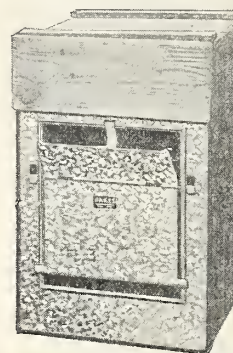
Over 80% of an egg is water. To get lots of eggs in winter, you should keep unfrozen water constantly before fowls. One cold day with water frozen, may stop egg production for a month.

A Little Putnam Stove is also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove. A 14-year-old boy can build the sprouter in two or three hours with no tools but saw and hammer. The materials required need not cost more than 50c. Price of Little Putnam Stove, Galvanized, \$1.95, postpaid. Illustrated circular on request.



Postpaid  
\$1.95

Burns a Month Without Attention



## Oakes Single Front for Trap Nests

(Patent Applied for)

You can use this front to make a trap nest out of any ordinary orange box, small dry-goods box, etc. Entirely practical but inexpensive.

Opening 9 x 10½ inches.

No. E-59, each, 35c; postpaid, 45c.

## FEED CUPS FOR EXHIBITION AND TRAINING CAGES

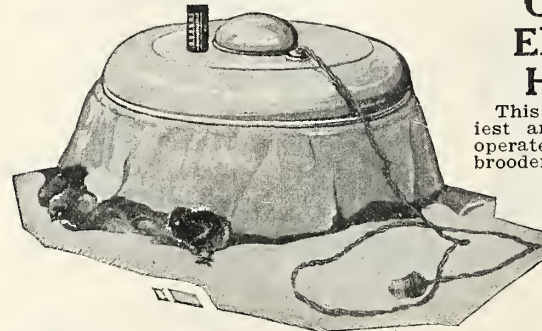
Large size, No. 1, 20c each; \$1.75 doz.; Small size, No. 0, 15c each; \$1.50 doz. Parcel post weight, 1 lb.

## Oakes Electric Hover

This is the handiest and easiest to operate of any brooder you ever saw. Capacity, 50-75 chicks.

Price, each, \$13.50.

Shipping wt. 13 lbs.



## Pigeon Bands

**SEAMLESS PIGEON BANDS**—Made in three sizes. Prices, dozen, 30c; 25, 60c; 100, \$1.50; 1,000, \$12.50.

**OPEN CHICK, OR PIGEON BANDS**—Prices, dozen, 15c; 25, 25c; 50, 40c; 100, 65c; 1,000, \$5.25. Fig. 6.



Fig. 7

**ELITE DOUBLE NUMBER COLORED PIGEON BANDS**—For marking nest pairs. This band is the most visible, most practical and effective numbered leg band made; in colors that can be seen at a distance—in 14 colors, black numbers of white. Prices, 6 pairs, 30c; 12 pairs, 60c; 25 pairs, \$1.15; 50 pairs, \$2.25. Fig. 7.



Fig. 6

## M.-S. Ribbon Band

This is an exceptional band; in fact the best celluloid band ever produced. It has a good large number that is indestructible so far as wear is concerned, while on the fowl. The best band ever made for use in trapnesting. Made in six sizes.

Per 100, postpaid

No. 1—Chick size, Day Old.....\$1.25

No. 2—Chick size, Two weeks old, or for pigeons ..... 1.25

No. 3—Mediterranean Breeds ..... 1.50

No. 4—American Breeds ..... 1.50

No. 5—Asiatic Breeds ..... 1.50

No. 6—Turkeys and Geese ..... 2.75

In small lots, 25c per dozen.

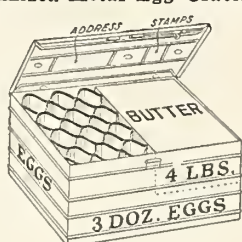




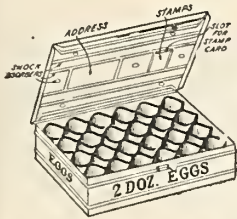
## Metal Egg Crates

Sell Eggs by Mail to Your City Friends  
Shipped in Aluminized Metal Egg Crates

Indestructible;  
made for inter-  
changeable  
shipments;  
lasts for years;  
pays for itself  
in a few ship-  
ments. Buy  
yours now and  
realize more  
money for your  
eggs. Your  
friends want  
them. Thou-  
sands now in  
daily use.



Combination Crates



Metal Edge Crates

The Metal Edge Filler is a wonder. A new invention and cannot be beat for safely carrying eggs by mail. Light in weight and very strong.

Price of eggs in the city is about double the price obtained by the farmer at a local store for selected eggs. You might as well be receiving this added profit by shipping your eggs direct.

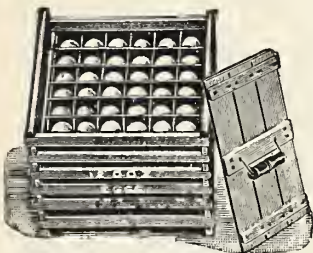
Butter and Eggs safely carried by mail in same crate. Can also be used in sending other products. See Combination Crate.

## Metal Egg Crate Prices and Mailing Weights

	Empty.	Filled.	Price.	Postpaid
1 Doz. size all eggs.....	2 lbs.	4 lbs.	\$1.00	\$1.08
1½ Doz. size all eggs.....	3 lbs.	5 lbs.	1.25	1.34
2 Doz. size all eggs.....	4 lbs.	6 lbs.	1.50	1.60
3 Doz. size all eggs.....	4 lbs.	8 lbs.	1.75	1.85
4 Doz. size all eggs.....	5 lbs.	11 lbs.	2.00	2.11
6 Doz. size all eggs.....	6 lbs.	15 lbs.	2.50	2.62
9 Doz. size all eggs.....	8 lbs.	22 lbs.	3.25	....
12 Doz. size all eggs.....	10 lbs.	28 lbs.	4.00	4.16

## Prices Combination Crates With Metal Containers Postpaid

No. 1—2 lbs. and 1 doz. eggs.....	\$1.50	\$1.57
No. 2—4 lbs. and 2 doz. eggs.....	2.00	2.08
No. 3—4 lbs. and 3 doz. eggs.....	2.25	2.34
No. 4—6 lbs. (3 2-lb. Containers).....	2.25	2.34
No. 5—12 lbs. (3 4-lb. Containers).....	2.50	2.60
No. 6—16 lbs. (2 8-lb. Containers).....	2.50	2.60
No. 7—24 lbs. (2 12-lb. Containers).....	3.50	3.75



**"HUMPTY DUMPTY" EGG CARRIER**—Fig. 5. A very light, strong and convenient egg crate and carrier. Made of hard wood slats securely fastened. The lid with handle, springs into position when crate is filled. Collapsible. 12 dozen, 75c. Parcel Post weight, 5 lbs.

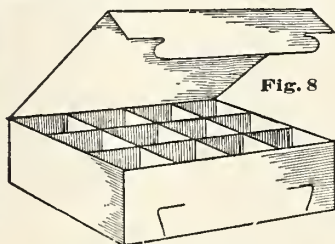


Fig. 8

**M.S. EGG BOX**—Fig. 8. This is an ideal box for the retail egg trade holding 1 dozen, presenting the goods to the customer in an attractive package with the minimum amount of trouble for the seller. They knock down in very compact shape. 15c per dozen; weight, 2 lbs., \$1.25 for 125; weight, 11 lbs., \$2.00 per pkg. of 250; 1,000, \$7.50.



**HOLED-TITE EGG CARRIERS**—Put in eggs, fold over flat. If you wish, tie with string. Job is done. When opened, half of eggs are shown. Makes them look better and bigger. With this one-piece handy package, you can sell right from the case, or you can put up dozens in advance. Holed-Tite Carriers come nested flat in packages of 250 moulded to shape of eggs—ready to use. Eggs packed in this carrier won't be broken, except by deliberate mishandling. 250, \$3.00; postpaid, \$3.11; 1,000, \$10.00; postpaid, \$10.32.

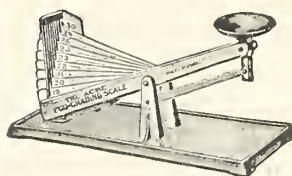
## Acme Egg Grading Scale

Is used by 50 State institutions and has been officially adopted as the standard scale in many sections of the United States and Canada.

Will grade all eggs ranging from 16 oz. to 32 oz. per dozen.

The Acme Scale is made entirely of aluminum which makes it rust-proof and practically indestructible. Works automatically. Easily read. Indicates grade instantly.

Price, \$3.00 each.



**COMMERCIAL EGG CRATE FILLERS**—Will fit any standard shipping case. 12 sets to case. \$3.25, postpaid \$3.75; 35c doz., postpaid 45c.

## Breeders' Magic Egg Tester

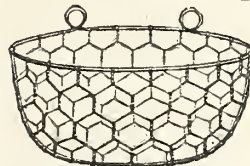
Is now universally used by poultrymen everywhere to select the strongest eggs for hatching BEFORE incubation. Requires no skill nor expense to operate—just a pair of hands and eyes. Tests 400 eggs per hour, and the greatest money saver in the realm of poultry supplies. Fully guaranteed, \$2.50 each.

**X-RAY EGG TESTER**. Fig. 1. Fits most any lamp or electric bulb. 25c, postpaid 35c.



Fig. 1.

## Nest Eggs and Wire Nests



These nests are strongly made from coppered wire, reinforced with coppered steel ribs, and will last for years. They are intended to fasten to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean, and are far superior to wooden boxes. Price, each, 25c; \$2.50 per dozen. Parcel Post wt. 1 lb. each.

**Opal Nest Egg**—Prices: 5c each; dozen, 40c. Special price on quantities. Weight, 1 dozen, 1 lb.

**M.-S. Lime Nest Egg**—Will last indefinitely; looks most natural. 5c each; 50c dozen, postpaid.

**Chatfield's Naphthalene Nest Eggs**—Keeps vermin away, disinfects nest. 5c each, 50c doz., postpaid.

## TRY THIS EASY WAY OF TREATING HENS FOR LICE

Sprinkle about one level teaspoonful of our Revenge Lice Killer in each nest box in your poultry house. Every hen that visits the nests, so treated, to lay will be entirely free of lice upon leaving the nest.

**Revenge Lice Killer**—1½ lb. can, 65c, postpaid 73c.

**Revenge Lice Killer**—3 lb. can \$1.00, postpaid \$1.10.

## Egg Preserver

Put your eggs down in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 to 60 dozen. Price, 1 quart, 35c; 1 gallon, \$1.00. Liquid not mailable.

## Livestock and Dairy



Disinfectant, Deodorant, Sterilizer  
FOR SANITATION

### In Preventing

Abortion  
Retained Afterbirth  
Calf Scours—Bloat  
Udder Infections  
Poultry Diseases  
Little Pig Diseases

### In Sterilizing

Milk Cans  
Milk Bottles  
Bottle Fillers  
Separators  
Strainers  
Milking Machines

### FOR DISINFECTING and DEODORIZING

Farm Buildings  
The Home

Prices: 10 oz. 60c; 1 qt. \$1.25; 1 gal. \$3.00; 5 gal. \$12.50.



# Thermometers, Instruments, and Appliances

## Incubator and Brooder Repairs

We carry a full line of Buckeye Incubator and Brooder Repairs. Let us know what you need and we will quote.

**Incubator Wicks**—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

**Brooder Wicks**—State sizes wanted. Price, 2 for 5c; doz. 25c, postpaid.

**Putnam Stove Wicks**—2 for 5c. Holder and Wick, 10c.

**Putnam Heater Wicks**—2 for 5c. Holder and Wick, 10c.

**Incubator and Brooder Lamp Burners**—For Buckeye, Cyphers, and other makes. No. 2 and 3—Large size, 95c; No. 1 takes 1 in. wick, has large flame, 75c; small size, No. 0, 55c. Mailing weight, either size, 1 lb.

**Chimneyless Brooder Lamp Burner**—Price 75c. Mailing wt. 1 lb.

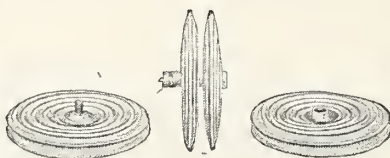
**Metal Chimney**—To fit above burners. 30c; postpaid, 35c.

## Metal Wafer Thermostat

All brass, fits all makes brooders and incubators.

3-inch .....	50c
4-inch .....	80c
5-inch .....	\$1.00

via parcel post, 5c extra.



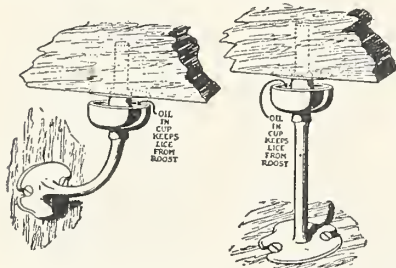
**Incubator Lamp Tanks without Burners**—small size, \$1.15; medium size, \$1.25; large size, \$1.40. Parcel Post wt., 3 lbs.

**Gas Burner for Incubators**—Price, 50c each, postpaid.

## M.S. LICE PROOF ROOST SUPPORT

These are indispensable in any poultry house, lice and mite are what stop your hens

from laying. Price, 50c a pair (either straight or curved). Parcel Post weight, 3 lbs.



## Thermometers

**Buckeye Incubator Thermometer**, postpaid, \$1.00  
**Buckeye Brooder Thermometer**, postpaid, \$1.25.  
**Buckeye Electric Brooder Thermometer**, postpaid, \$1.25.

**"Tycos" Incubator Thermometer, No. 5770** — Many poultry raisers prefer the standing type of Incubator Thermometer. No. 5776 is made with metal legs, which fold under and may be adjusted to almost any desired position. Sets in among the eggs on the floor of the incubator. Made in mercury tubes only. Price, 75c each; postpaid, 85c.



**Philadelphia Caponizing Set**—In plain box, \$2.50. In velvet lined box, price, \$2.75.

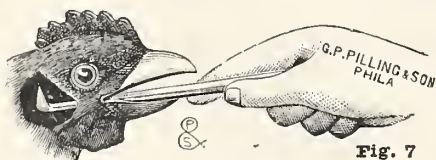


Fig. 7



Fig. 6



Fig. 3.

**Tycos Certified Thermometer No. 5783**—Price, \$1.00.  
**"Tycos" Brooder Thermometer, No. 5792** — Mounted. Price, 60c; 70c postpaid.

**"Tycos" Incubator Hygrometer, No. 5796**—Price, \$1.50. Extra wicks 10c each, postpaid.

**Thermometer No. 5776.**



**Lansdowne No. 1 Caponizing Set, \$4.00**, postpaid.

**Cornell Caponizing Set, \$5.00**, postpaid.

**ANGULAR KILLING KNIVES**—Fig. 7. Price, 50c each.

**FRENCH SAFE EDGE KILLING KNIFE**—Fig. 6. Price, 50c.

**FRENCH POULTRY KILLING KNIFE**—Price, 50c.

All the above postpaid.

**GAPE WORM EXTRACTOR**—Price, 25c, postpaid. Fig. 3.

## M.-S. Brooder Thermometer



White enamel background, black figures and graduations, red liquid and magnifying lens, make this thermometer easy to read. Scale ranges from 20 degrees to zero with this instrument observations can be taken at a glance.

Price \$1.00, postpaid.

## Anti-Setting Device

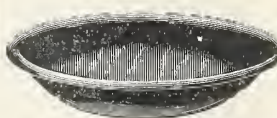
### STOPS THE HEN SETTING

**Breaks 'Em Up in 24 Hours (Patent Applied For)**

Does not in any way injure the fowl. Requires five seconds to apply. Wrap around the leg joint blank sides front and back; allow the hen to feed and run with the flock 24 hours, then remove. Price, 15c each; \$1.50 dozen, postpaid.



## Pigeon Nests



**Clay Pigeon Nest**—Fills a long-felt want for all squab breeders. Price, 25c each, \$2.50 dozen. Express only.



**Mehler Scraper** — Positively the best and handiest tool which has ever been offered to Poultry Keepers. Works both ways coming and going. Made of the very best hard pressed steel. Price, \$1.25.

## Cel-O-Glass

### What Is Cel-O-Glass?

Cel-O-Glass is an unbreakable, highly translucent material made by coating tough wire mesh with a transparent substance that lets through practically as much light as clear glass. Cel-o-Glass is very light in weight, absolutely weather-proof and extremely easy and economical to use. It is flexible, comes in rolls and can be used almost any place where fragile glass is required.

**Brings the Ultra-Violet Rays of the Sun Indoors**

In addition to its many remarkable advantages, Cel-O-Glass lets through the valuable health-building ultra-violet rays of the sun. Glass keeps these vitalizing rays out!

Pure sunlight is absolutely necessary for healthy growth among human, animal and plant life. When you use ordinary glass you are deprived of nature's greatest stimulant—the ultra-violet rays of the sun. You can easily remedy this condition, however, simply by replacing window glass with Cel-O-Glass—the material that admits pure unadulterated sunlight.

**Cel-O-Glass**—The great substitute for glass, much stronger and lighter than glass. Can be used wherever glass is used. 300 square feet to the roll. 3 feet wide cut any size from 1 running foot up. Price, per running foot, 26 in. wide 33c; 28 in. wide 35c; 36 in. wide 45c. Postage 10c for one running foot, 1c extra for each additional running foot; 100 ft. rolls, 26 in. \$31.25; 100 ft. rolls, 28 in. \$33.25; 100 ft. rolls, 36 in. \$43.25.



**Protect Chicks & Plants with**

**CEL-O-GLASS**



# ZENDOLEUM

"Zenoleum" Disinfectant, Lice Killer and Animal Dip — We have been selling this article for years, and find it most

satisfactory. One gallon makes 100 gallons of fluid. 8 oz. 35c; 1 pt. 50c; 1 qt. 75c; 2 qt. \$1.25; 1 gal. \$2.00; 5 gal. \$8.00. Not mailable.

**LEE'S LICE KILLER** — Liquid — Qt. 60c; 2 qts. 90c; 1 gal. \$1.50.

**LEE'S GERMO-ZONE** — The best tonic for poultry of all kinds. Cures rouse, cholera, and other poultry diseases. 32-oz. bottle, \$1.50; 12-oz. bottle, 75c; 4-oz. bottle, 40c; not mailable; in tablet form, 65c and 25c, postpaid.



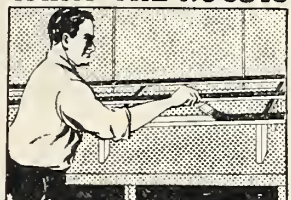
**LEE'S VAPO SPRAY** — Very beneficial for spraying around the roosting quarters at night in cases of Rouse, Canker, Bronchitis and Pneumonia. ½-gal. cans, \$1.25 each, postage extra.

**LEE'S FLU KOFF EMULSION** — For Rouse, Colds, Bronchitis and Pneumonia. Price \$1.00, postpaid \$1.08.

**LEE'S "GIZZARD WORM CAPSULE"** — Expels worms without sickening the chicken or retarding egg production. 50 Capsules \$1.00, postpaid; 100 Capsules, \$1.75, postpaid.

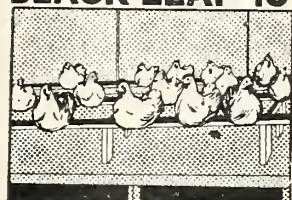
**DR. HESS POULTRY PANAMIN** — 3 lbs. 50c; 7 lbs. \$1.00; 15 lbs. \$2.00; 25 lbs. \$3.00, postage extra.

## "PAINT THE ROOSTS"



WITH "BLACK LEAF 40"

## "BLACK LEAF 40"



WORKS WHILE THEY ROOST

To the Poultry Industry we take pleasure in announcing a new method of controlling poultry lice with "Black Leaf 40," discovered by Mr. William R. Stewart, a poultryman of Arcadia, Calif. This discovery of a new use for this "Old Reliable" and time-proven product will be of inestimable value to poultrymen everywhere. 10-lb. tin, \$11.85. Treats 1900 to 2400 running feet of roost. 2-lb. tin, \$3.25. Treats 385 to 480 running feet of roost. ½-lb. bottle, \$1.25. Treats 90 to 120 running feet of roost. 1-ounce bottle, 35c. Treats 12 to 15 running feet of roost. Not mailable.

## O K Poultry Litter

### THE LEADING POULTRY LITTER

O K Poultry Litter is used by most professional poultrymen because it has the reputation for being the best.

It is absolutely sanitary. It is decidedly economical, and makes the cleaning of poultry houses a matter of little worry because they need not be cleaned more than once a season.

Also many other advantages. Let us tell you about them.

Bale of 19-20 bushels, \$3.50; peck 35c; ½ bus. 50c; 1 bus. 90c.



# Dethol

IMPROVED

Destroys all insects. It is stainless; can be sprayed direct on poultry. A thorough disinfectant. ½ pt. 50c; 1 pt. 75c; 1 qt. \$1.25; 1 gal. \$4.00. Combination Sprayer and Pint of Dethol, \$1.00. Being a liquid, it cannot be sent by parcel post; express only.



## Walko Remedies

**WALKO WHITE DIARRHEA, ROUP AND CHOLERA TABLETS** — Price 50c and \$1.00 pkg., both postpaid.

**WALKO EGG MAKER (Tonix)** — Price, 50c and \$1.00; postpaid, 60c and \$1.15, respectively.

**WALKO SPECIAL LICE POWDERS** — Price, 50c; postpaid, 60c.

**SULPHUR CANDLES** for fumigating sick rooms, poultry houses, etc. 15c each; 2 for 25c; \$1.25 per dozen. Postage extra.

**BARIUM CARBONATE** — A tasteless and odorless mineral recommended by the U. S. Government for exterminating rats and mice. It was used for cleaning Baltimore of this pest. 25c pkt. \$2.50 per doz. Not mailable.

**CYANOGEN A** — Dust for Rats and Mice — Pump dust in open rat hole with Cyanogen duster. Plug all holes from which dust is seen to emerge. Continue pumping until reasonably sure that the dust has permeated the rat warrens. Remove duster nozzle and block hole. Treat next open hole in same manner. Continue until all holes have been plugged. 1 lb. 75c; 5 lbs. \$3. Not mailable.

## Common Sense Exterminator



# KILLS RATS

Why feed rats when a 25c can of "Common Sense" will clean them out?

"Common Sense" has been on the market for over a quarter century. It does the work or we would not handle it.

Get a can NOW and if you do not find it entirely satisfactory, we will refund your money. Price 25c. Not mailable.

Remove duster nozzle and block hole. Treat next open hole in same manner. Continue until all holes have been plugged. 1 lb. 75c; 5 lbs. \$3. Not mailable.

## Try These Remarkable Remedies



**REVENGE LICE DESTROYER** — Ninety-five pens out of a hundred have shown that they have more or less lice. These parasites are thieves, taking the poultryman's profits. Revenge will prevent these losses. Apply a sample of Revenge Powder in the feathers of a fowl, hold it a couple of minutes and then shake it over a white paper and the lice will fall off dead. The easiest way is to put it in the dust boxes, in the nests, and on the roosts. This product has been used by leading poultrymen for the past thirteen years and is undoubtedly the best on the market.

Prices — 1½-lb. can, 65c; 3-lb. can, \$1.00; 6-lb. can, \$1.75; 25-lb. pail, \$6.25.

**WORMR** — Worm Destroyer — The safe and sureworm expeller. WORMR will rid your flock of pin, round or tape worms without injuring your flock. Simply mix WORMR with the mash or ground feed and you can see the worms in the droppings within twenty-four hours. It is guaranteed to rid your flock of all kinds of worms. Put up in tablet form for individual treatment or in powder form to be mixed with the feed. By dropping a tablet down the throat of a fowl it will be cleared of worms within twenty-four hours.

In powder form, enough for eighty hens, 65c; enough for one hundred and sixty hens, \$1.00. In tablet form, 100 tablets \$1.00; 1,000 tablets, \$9.00.







## THE POWDER OF MANY USES

**CARBOLA** is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. *One pound covers 100 sq. ft.*



### IN THE CHICKEN HOUSE

To paint and disinfect side walls, ceilings, roosts and brooders. Helps keep the birds free from lice and mites and the buildings clean, light and sanitary. Sprinkle it in the nests and rub it into the birds. The dry powder is an excellent louse powder.

### IN THE BARN

To paint and disinfect side walls, ceilings, stalls, etc., as an aid to cleanliness and prevention of tuberculosis, foot and mouth disease, and other contagious diseases. Spread the dry powder on floor where the cow stands. Use it as a louse powder. Wash hands with powder before milking.



### IN THE HOUSE

**Carbola** applied to walls and ceilings of cellars will kill bad odors, mustiness, prevent cobwebs, disease germs, drive out spiders, ants and other insects. Use the dry powder as cleanser for pots, pans, cutlery and for removing stains from woodwork. Especially recommended in bathroom for cleaning bathtubs, wash basins, tile and for disinfecting the bowl.



Dust **Carbola** on rose bushes, peas, cabbage, tomato plants, etc., to help get rid of insects and worms. Spray it on trees and tree trunks.

It increases light, sanitation and general appearance in factory buildings. It makes cleaner warehouses. An excellent and economical interior finish for garages.

Prices: 5 lbs. 75c, makes 2½ gals. postpaid 87c; 10 lbs. \$1.25, postpaid \$1.42; 25 lbs. \$2.85, postpaid \$3.18; 50 lbs. \$5.00, postpaid \$5.60.

## Dry Dusting With Carbola



An effective method of disinfecting. No moisture caused as with liquids—especially valuable during winter when live stock is confined.

## Carbola Dust Gun

Price, \$1.25; Postpaid, \$1.35.



## Kill Rats—Without Poison

**A New Exterminator that is Absolutely Safe to use Anywhere!**

Will not injure human beings, livestock, dogs, cats, poultry, yet is deadly to rats and mice every time.

### Poisons are too dangerous

K-R-O does not contain arsenic, phosphorus, barium carbonate or any deadly poison. Made of powdered squill as recommended by the U. S. Dept. of Agriculture in their latest bulletin on "Rat Control."

"One of our good customers just told us he gathered 105 dead rats on his farm from using a 2-ounce package of K-R-O. We hear of many finding 30 or 40 rats after using K-R-O, which is highly successful and should please you." Wolgamot's Drug Store, Richwood, O.

75¢ at all stores; large size (four times as much) \$2.00. Sent postpaid **SOLD ON MONEY-BACK GUARANTEE.** The K-R-O Company, Springfield, Ohio.

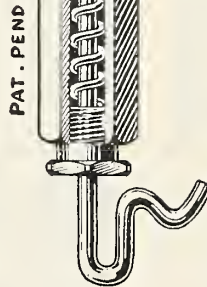
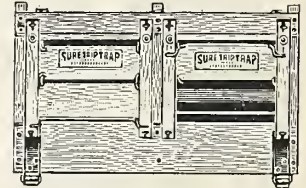
# K-R-O

## KILLS-RATS-ONLY

## Sure Trip Trap Nest Front

Simple mechanical device, ingeniously designed which accurately traps. Easily attached to an orange box or any home made nest. Very inexpensive.

No. 500—3 for \$1.00 postpaid; 100 for \$25.00 f. o. b. factory.



PAT. PEND

## The New Improved Dry-Not Valve

Will save time and labor, keep (two quart to two gallon) water troughs full in brooder house, laying house or range whether connected to barrel, gravity, or pressure system. No chatter or pressure noises. Quickly shut off for cleaning troughs, etc. Made of brass, frost-proof, dependable. Fully guaranteed. One piece heavy galvanized steel troughs 4½ inches wide by 30, 45, and 60 inches long, 90c, \$1.25 and \$1.60 each postpaid. **Dry-Not Valve, \$1.50 each, postpaid.** Quantity discount 6 Valves or Trough is 10%.

## Earthenware Poultry Fountains

**Black Glazed.**

The poultry fountains supply a constant flow of pure water. Made in two pieces, can be easily kept clean and sanitary. The slot also permits the use of thick milk or other heavy liquids. In following sizes: 2 quart size, 50c; 4 quart size 60c.



Bowie, Md., Feb. 26, 1929.  
The Meyer Seed Co.,  
Baltimore, Md.

Dear Sirs:

The fifty baby chicks sent by your hatchery arrived safely February 21st. They are a lively, healthy bunch of chicks, and I am very well satisfied with them.

Sincerely yours,  
(MRS.) VINCENT L. FLADUNG,  
Bowie, Md.



On Articles Not  
Marked Postpaid  
Allow 7c for the  
1st lb. and 1c for  
every additional lb.

## Poultry Foods, Tonics, Disinfectants, Etc.

Prices on All Foods Subject to Change Without Notice

**"AMERICAN" TURKEY POWDER**—It is sure to raise your young turkeys to healthy birds. Shipping weight, 2 lbs. Price, 30c.

**ALFALFA CLOVER MEAL**—Rich in protein and especially desirable for young birds. 5c lb.; 100 lbs. \$3.00.

**BARLEY**—Principally fed for making feathers and bone. 5c lb.

**BEEF SCRAP**—Very rich in protein; 50 to 55 per cent protein, 12 to 15 per cent fat, 1 to 2 per cent fibre. 8c lb.; 10 lbs. 75c; \$5.50 per 100.

**BONE FLOUR**—Very beneficial as a bone builder. 10c lb.; \$5.00 100 lb.

**BRAN (Wheat)**—For mash, etc. An excellent egg maker and very nutritious. 5c lb.

**BUCKWHEAT**—Fed very largely as change of diet. 6c lb.

**BUTTERMILK SEMI-SOLID**—1 gal. can, \$1.00; 5 gal. pail, \$4.15; 140 lb. barrel, these vary in weight, at \$7.00 per 100 lbs.

**CANADA PEAS**—Principally fed to pigeons. 7c lb.

**CHARCOAL**—Three grades, fine, medium and coarse. Disinfects the bowels and tones up the whole system. 1 lb. 8c; 35c for 5 lb.; 10 lbs. 60c; \$2.00 for 50 lbs.; 100 lbs. \$3.50.



**First 10 days Food**

**FPC**

**CHICK MANNA.**

**CHICK MANNA**—Is a complete food in every respect, requiring nothing more for the first ten days. Price, 1 lb. 15c; 3 lbs. 40c; 5 lbs. 60c; 15 lbs. \$1.65; 100 lbs. \$8.50.

**CORN CHOPS**—Suitable for either mash or feeding little chicks. 5c lb.

**CORN CRACKED**—Carefully sifted; fine or coarse. 1 lb. 5c.

**CORN WHOLE**—5c lb.

**GLUTEN MEAL**—For feeding to both poultry and cows. 1 lb. 5c.

**GRIT (Cockeyville Egg Shell)**—Fine, medium and coarse. 5 lbs. 15c; 25 lbs. 50c; 50 lbs. 75c; \$1.25 per 100 lbs.

**GRIT (Red Cross Health)**—For pigeons. 5 lbs. 20c; 10 lbs. 35c; 25 lbs. 65c; 50 lbs. \$1.25; 100 lbs. \$2.25.

**HEMP SEED**—Fed largely to pigeons, also to poultry during winter months. 8c lb.

**KAFFIR CORN**—Makes a fine food for pigeons, also used for poultry. 5c lb.

**LINSEED MEAL**—For feeding with the regular ration during the moulting period. 5c lb.

**MIDLINGS**—An excellent change in combination of a mash. 5c lb.

**MILLET** (for feeding)—Highly nutritious and used extensively for pigeons and young chickens. 6c lb.

**OATS**—Splendid for sprouting. 5c lb.; Rolled Oats, 6c per lb.

**OAT MEAL (Pin Head)**—An excellent food for young chicks after they are a few days old. 6c lb.

**OATS HULLED**—A splendid food for young chicks. 6c lb.

**OATS GROUND**—This makes an excellent dry feed when combined with other similar ration. 5c lb.

**OYSTER SHELLS**—Fine and coarse. 5 lbs. 15c; 50c for 25 lbs.; 50 lbs. 75c; \$1.25 per 100 lbs.

**PIGEON FOOD (PRATTS)**—Containing the best of grain. No corn. 6c lb.; 100 lbs. \$4.50.

**SUNFLOWER SEED**—For poultry, parrots, etc., 10c lb.; 10 lbs. 80c.

**TOBACCO STEMS**—1 lb. 5c; 50 lbs. \$1.75; 100 lbs. \$3.00.

**POUL TOBACCO (Tobacco Powder and Tonic)**—For the elimination of large and small round worms in poultry and as a tonic. Use 2 lbs. to 100 lbs. of mash. 2-lb. carton, 35c; postpaid, 43c; 100 lbs. \$5.50.

## Pure Cedar Bedding

FOR USE WITH DOGS, POULTRY AND PETS

A Preventive of Disease and Vermin

NO FLEAS, NO VERMIN, NO DISEASE where Cedar Bedding is used.

ENDORSED BY DOG HOSPITALS and large kennels of the country and by many Poultry Fanciers.

PRICES OF CEDAR BEDDING

100-lb. bales	\$6.50
50-lb. bales	3.75
25-lb. bales	2.25
1-lb. bales, postpaid	.40

## Bird and Fish Foods, Catnip Mouse



Lb.	Lb.
Canary Seed .....15c	Thistle .....45c
Bird Rape .....15c	Sunflower .....10c
Millet .....08c	Hemp Seed .....08c
Poppy or Maw.....30c	Mixed Bird Seed..15c

Special price on all the above in quantities.

Flax Seed.....25c

Cuttle Fish Bone—Price, 5c each; 50c lb.

"Gloria" Song-Restorer Food—This is scientifically proportioned and has been fed with great success. Price, 1 lb. 25c

For-get-me-not, Wild Bird, Seed Mixture—Feed the little songsters in the winter time. 15c lb.

Bird Sand for Canaries and other birds. Very necessary. What we offer is sifted and free from all dust. Carton, 15c per lb. Parcel Post weight, 3 lbs.

Spratts Fish Food—20c, postpaid, 25c.

Catnip Mouse—Make kitty happy. 15c, postpaid.

Burnetts Lightning Bird Regulator—25c, postpaid 32c.

Burnetts Unexcelled Bird Food—25c, postpaid 32c.

Spratts Cod Liver Oil Cage Bird and Nesting Food—25c, postpaid 32c.

Spratts Egg Flake and Fruit Bird Food—25c, postpaid 32c.

Spratts Sing Song—A dainty for cage birds. 20c, postpaid 25c.

## Dog and Cat Foods, Remedies, Etc.

### PEERLESS DOG FOOD

A Food for Dogs and Puppies

The best dog food on the market in the shape of meal; can be fed dry or wet. We have hundreds of customers who are feeding this highly nutritious food. Price of Food—1 lb. 10c; 5 lbs. 45c; 10 lbs. 80c; 100 lbs. \$6.00. Price subject to change.

## Sergeant's Dog Remedies and Food

**Sergeant's Kibbled Dog Food**—A very nutritious food for dogs or puppies. 1 lb. 15c; 2 lbs. 25c; 5 lbs. 60c; 10 lbs. \$1.15; 100 lb. \$10.

**Distemper Medicine**—Price, \$1.20. Postpaid.

**Mange Medicine**—Price, 65c; 75c postpaid.

**Condition Pills**—Price, 60c. Postpaid.

**Sure Shot Capsules**—Price, 60c. Postpaid.

**Sure Shot Liquid**—Price, 60c.

**Arsenic and Iron Pills**—Price, 60c. Postpaid.

**Dog Rub (a Liniment)**—Price 60c; 70c postpaid.

**Canker Wash**—Price, 60c; 70c postpaid.

**Cough Medicine**—Price, 60c; 70c postpaid.

**Well Mouth (Sore Mouth and Black Tongue)**—Price 60c; 70c postpaid.

**Eye Wash**—Price, 60c; 70c postpaid.

**Tape Worm Medicine**—Price, 60c. Postpaid.

**Rheumatism Pills**—Price, 60c. Postpaid.

**Constipation Capsules**—Price, 60c. Postpaid.

**Skip-Flea Soap**—Price, 25c. Postpaid.

**Carbolic-Tar Soap**—Price, 25c. Postpaid.

Send for special book on dogs—Spratts, Sergeants and Glovers.

## Glover's Dog Medicines

A REMEDY FOR EVERY DISEASE—DOG BOOK ON REQUEST

### KEN-L-RATION

Is composed of clean wholesome meat, the best grade of cereals and Norwegian Cod Liver Oil in exactly the right proportions to make a perfect balanced ration. 1-lb. can 18c; postpaid 25c. 3 lbs. 50c; postpaid 60c. Case of 48 cans, \$7.25.

## Maro Meat

A CONCENTRATED MEAT PRODUCT

This is a basic meat food and must be fed with other material. For this purpose we recommend Peerless Dog Food, Boiled Rice, Rolled Oats, Barley, or other cereals may be used. Cooked vegetables are good, or dry bread. A 2½-lb. can supplemented with water and roughage as indicated above, will make from 8 to 10 pounds of appetizing, nourishing food for kennel use. This food fills a real need to large users.

Price—40c per can; postpaid 49c.

### KIT-E-RATION

The ingredients in this cat ration contain properties so very essential for the growth and development of the cat or kitten. 1-lb. can 18c; postpaid 25c; 3 lbs. 50c; postpaid 60c.



# Pratts.

## "QUALITY" POULTRY FEEDS, REGULATORS and REMEDIES

### Pratts Buttermilk Baby Chick Food

The original "baby food for baby chicks." It has taken all the guess, worry and loss out of raising baby chicks. Use it the first month to six weeks and watch results. Chicks grow strong, uniform, vigorous and sturdy and are free from leg weakness, "pasting up" and digestive troubles.

Equally good for young turkeys, guineas, ducks, pheasants and game birds. A perfect "baby food" for young fowls.

**Prices**—Pkgs. 25c and 50c, postpaid 32c and 60c; 5 lb. bag 40c, postpaid 50c; 10 lb. bag 65c, postpaid 80c; 14 lb. bag \$1.10, postpaid \$1.25; 25 lbs. \$1.50, postpaid \$1.80; 50 lbs. \$2.75, postpaid \$3.30; 100 lbs. \$5.00.

**Ingredients:** Ground hulled oats, dried buttermilk, cooked wheat, sterilized bone-meal, ground whole old yellow corn wheat middlings, epsom salt, millet and rape.



#### Analysis (Guaranteed)

Protein .....	11.5% minimum	Fibre .....	3.8 % maximum
Carbohydrates .....	69 % minimum	Ash .....	6.85%
Fats .....	3.5% minimum	Moisture .....	10% maximum

In packages and 5, 10, 14, 25, 50 and 100-lb. bags.

After the little fellows are about a month old switch them to

### Pratts Buttermilk Growing Mash

**DIGESTIBLE — APPETIZING — ECONOMICAL**

**Buttermilk Growing Mash**—Lb. 6c; 100 lbs. \$4.25.

**Ingredients** — Feeding oatmeal, dried buttermilk, wheat middlings, meat scraps, wheat bran, ground whole old yellow corn, fish meal and sterilized bone meal.

#### Analysis (Guaranteed)

Protein .....	17.5 %
Fat .....	4.5 %
Carbohydrates .....	58%
Fibre .....	7%

This splendid mash for the growing youngsters supplies an abundance of every element needed for making bone, muscle, feathers and health. Insures vigor and quick, uniform growth. When they are matured give them

#### AMERICA'S GREATEST "EGG MAKER"

—The one feed above all others that will give you more eggs per pound of feed consumed—is

### Pratts Buttermilk Laying Mash

This remarkable mash is the standard by which others are judged. Not alone theoretically right but proven by practical test to be the greatest "egg producer" ever made. There is a good reason for every ingredient in this splendid mash.

Pratts Buttermilk Laying Mash produces more eggs at less cost per dozen and gives greatest profits.

**Prices**—Lb. 5c; 100 lbs. \$3.75.

**Ingredients**—Dried buttermilk, ground clipped oats, ground whole old yellow corn, O. P. linseed meal, wheat middlings, alfalfa leaf meal, meat scrap, corn feed meal, wheat bran, fish meal, 1/2 of 1% salt.

#### Analysis (Guaranteed)

Proteins .....	20% minimum
Fats .....	4% minimum
Carbohydrates .....	55% minimum
Fibre .....	9% maximum



**PRICES ON PRATTS GRAIN AND MASH FEEDS SUBJECT TO MARKET CHANGES**

### Pratts Scratch Grains

**PRATTS VICTORY CHICK SIZE SCRATCH FEED**—Lb. 6c; 100 lbs. \$3.75.

**PRATTS INTERMEDIATE SIZE SCRATCH FEED**—Lb. 6c; 100 lbs. \$3.75.

**LARGE SIZE SCRATCH FEED**—Lb. 5c; 100 lbs. \$3.25.

**PRATTS COD LIVER OIL**—One gallon cans, price \$2.00.

**Pratts Poultry Regulator (For Health and Eggs)**

—Use it the year 'round for breeders, layers and growing stock. Pkg. 25c and 50c, postpaid 33c and 61c. 12-lb. pail, \$1.65, postpaid \$1.83; 25-lb. pail, \$3.00, postpaid \$3.31; 100-lb. drum, \$10.00, postpaid.



**Pratts White Diarrhea Tablets** in the drinking water for the first couple of weeks. Proven by years of success, it will save you many dollars and chicks. Guaranteed. 25c and 50c packages.

**Pratts Special Compound**—For indigestion, sour crop, diarrhea and bowel troubles, commonly called CHOLERA. Gives quick, effective relief. Easy to use. Certain in action. Guaranteed. 25c and 50c packages postpaid.

**Pratts Poultry Worm Powder**—A scientific mixture of areca nut, worm seed, quassia and pomegranate root bark combined with a tobacco powder base. Safe and very effective. Package, 2 lbs. 50c.

**Pratts Roup Tablets (or Powder)**—Save your birds from heavy roup losses. Guaranteed to give satisfaction or your money back. 25c and 50c packages postpaid.



**Pratts Gape Compound** an effective, easy remedy that will prevent further losses and save the sick chicks. External. 25c and 50c packages postpaid.

**Pratts Condition Tablets**—25c and 50c boxes, postpaid.

**Pratts Sore Head Chicken Pox Remedy**—30c and 60c packages, postpaid.

**Pratts Powdered Lice Killer** is powerful, economical, non-poisonous and non-irritating. For use on poultry, in dustbaths, nests, etc. Rids poultry of all ages, dogs, cats, horses, cattle, hogs and sheep of lice, ticks and other insect pests. Can also be used on vines, plants and flowers. In sifter cans, 25c and 50c. Postpaid, add 5c & 10c.

**Pratts Poultry Disinfectant** insures poultry health. It is a cheap, powerful, non-poisonous disinfectant. Quart, 55c; half gallon, 90c; gallon, \$1.50, not available.

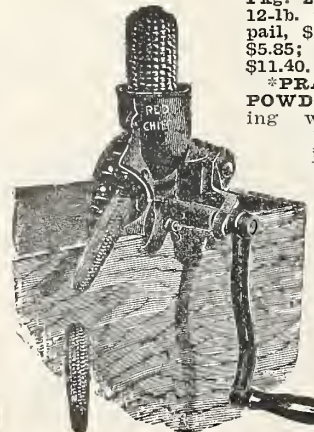
**Pratts Hog Tonic** makes healthy hogs. Pkg. 50c; postpaid 58c.

**Pratts N-K Worm Tablets**—Adults, 50 tablets \$1.00; 100 tablets \$1.75. Chicks, 50 tablets 65c; 100 tablets \$1.00.

**KOW-KARE**—Valuable for run-down cows, 65c, \$1.25, postpaid.

**PRATT'S ANIMAL REGULATOR** is a regulator, digestive and mild tonic. The ingredients consist of pure medical roots, herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion. Pkg. 25c, 50c and \$1.00; 12-lb. pail, \$2.15; 25-lb. pail, \$3.40; 50-lb. drum, \$5.85; 100-lb. drum, \$11.40.

**\*PRATT'S WORM POWDER**—For destroying worms in horses, cows, hogs and sheep. Box 50c. Weight, 1 lb.



### "Red Chief" Corn Sheller

Heavy in construction, with patent oval-shaped teeth which are arranged to shell rapidly and avoid injuring the grain. Price, each \$2.50; weight 12 pounds.



# Conkey's

THE ORIGINAL BUTTERMILK FEED

VITALIZED WITH Y-O

For Baby Chicks, Ducklings, Goslings, Turkeys and Pheasants



**THE FIRST CHOICE OF ALL FEEDS**—In building Conkey's Buttermilk Starting Feed, Conkey has learned Nature's secret of "just what elements are needed and just how much of each to use." This feed truly "Fills the Bill" because it carries all the body building properties your chicks must have to live, thrive and become vigorous, husky broilers or healthy high-producing birds. The right kind and correct amount of every element needed—proteins, carbohydrates, fats, minerals and vitamins—is in this Starter and all are combined to bring about a rapid growth, strong bone development, and vigorous, sturdy chicks—coupled with minimum mortality.

**INGREDIENTS**—Buttermilk, Corn Meal,

Corn Feed Meal, Oatmeal, Wheat Middlings, Raw Bone Meal, Blood Flour, Meat Meal, Crude Milk Albumen, Salt  $\frac{1}{2}\%$ , Y-O (Cod Liver Oil, Yeast, Soybean Oil Meal, Wheat Middlings,  $\frac{1}{4}\%$  Red Oxide of Iron).

**ANALYSIS**—Crude protein 14.00%; crude fat 5.50%; crude fibre 5.00%; nitro. free extract 59.00%; carbohydrates 64.00%.

Price—2½ lbs. 20c; postpaid 29c; 5 lbs. 40c, postpaid 51c; 10 lbs. 65c; postpaid 82c; 25 lbs. \$1.50, postpaid \$1.81; 100 lbs. \$5.00. Not postpaid.

## Conkey's' Gecco Growing Mash With Y-O

If the growing stock at any time lack vitamins A, B and D, the result will be slow developing, undersized pullets dragging into the fall and early winter with a few scattering small and irregular eggs. For this reason we recommend feeding Conkey's Gecco Growing Mash with Y-O. Then their rapid development, their blood-red combs, yellow eggs, lustrous plumage and alert bearing will amaze and delight you. You will experience the "big thrill" that always comes when the whole flock of pullets snap into a lay almost simultaneously and, like a great factory, throb and pulsate with life and action.



Prices—6c lb.; 100 lbs. \$4.30.

## Conkey's Y-O—Cod Liver Oil—and Sunlight

Only a few years ago authorities were endeavoring to promote life and growth with foods that were synthetically pure as to proteins, carbohydrates, fats and minerals. Always they failed! Then, vitamins were discovered and since that time—about 15 years ago—vitamins have more and more proven their vitalizing power.

It is now definitely known that the lack of vitamins brings about many ailments in all forms of animal and bird life, especially in the young. They must have these vitamins and since vitamins A and D are found in large quantities in cod liver oil and vitamin B is found to be very strong in yeast, Conkey has taken these two products and, by a secret process, sealed and combined them in such manner that the A and D vitamins of the oil do not lose their potency.

Putting this amazing discovery into practical use through the manufacture of Conkey's Y-O is a boon to poultrymen as is illustrated by the thousands of satisfied customers.

Conkey's Y-O is a chocolate brown powder, which can be easily and readily mixed with any dry mash. It has the savory odor of clean, sweet, freshly-refined cod liver oil and is unusually tasty and palatable to poultry. Hence fowls eat it greedily, as do all birds and animals.

Prices—1 lb. pkg. 55c, postpaid 63c; 2 lb. pkg. \$1.00, postpaid \$1.09; 5 lb. pkg. \$2.00, postpaid \$2.12; 25 lb. drum \$7.50, postpaid \$7.81; 50 lb. drum \$14.00 postage extra; 100 lb. drum \$22.50.

Gentlemen:

The 600 chicks which I received from you are doing nicely; only one is dead. They were a very nice lot of chicks and I am very well pleased with them.

Yours very truly,

GEORGE H. LONG, Arnold, Md.

## CONKEY'S POULTRY REMEDIES

Known All Over the World—The Poultryman's Standby. Keep a Few Select Remedies Always at Hand Ready for Emergency.



### CONKEY'S OLD RELIABLE POWDER (Formerly Conkey's Roup Remedy)

This famous treatment has been on the market for thirty years, known to poultrymen everywhere as Conkey's Roup Remedy. Many would not try to keep poultry without Conkey's—the Old Reliable. Easily given in the drinking water letting the birds help themselves. Keep it on hand for use in emergency or put it in drinking founts on cold rainy days or when there is a sudden change in weather. In mild doses it acts as a tonic.

Prices—Pkgs. 25c, 50c, \$1.00; 1½ lb. can \$2.35, all postpaid; 5 lb. can \$5.50, postpaid \$5.75.

### CONKEY'S POULTRY PILLS

(Formerly called Conkey's Roup Pills)

Prices—Pkgs. 25c, 50c, \$1.00 (all postpaid); breeder size (1000 pills), \$2.75, postpaid \$3.00.

### CONKEY'S BALMO

(Formerly called Conkey's Canker Special)

A soothing, cooling application for relieving irritation around the swollen eyes and head and in the mouth when treating conditions caused by colds and similar troubles.

Prices—Pkg. 50c, postage extra.

### CONKEY'S POULTRY WORM REMEDY (For Large Round Worms)

Over 90 per cent of market poultry are infested with worms, of which there are many varieties—Round Worms, Gizzard and Caecal Worms and Flukes or Leaf Worms. Worms cause great loss and flocks should be treated regularly. See directions on packages of Conkey's Worm Remedy.

Prices—Pkgs. 25c, 50c, or 30c, 55c, postpaid; breeder size (5 lbs.), \$2.75, postpaid \$2.85.

### CONKEY'S SALVO

(Formerly called Sorehead Remedy)

Good to have on hand for treating sores, cuts and wounds of any description.

Prices—Pkgs. 25c, 50c, or 30c, 55c postpaid; breeder size (1 lb. salve, 5 lbs. powder), \$3.50, postpaid \$3.65; 10 lbs. powder only, \$3.50 postpaid.

### CONKEY'S DIATEX

(Formerly called Conkey's White Diarrhea Remedy)

These tablets have been on the market for years as Conkey's White Diarrhea Remedy. Once you have used this old reliable preparation you will never be without it. An astringent tablet for drinking water of poultry and baby chicks. Play safe—keep this remedy in the drinking water of all baby chicks until danger period of the first few weeks is past.

Prices—Pkgs. 25c, 50c, \$1.00, all postpaid; breeder size (1,200 Tablets), \$3.75, postpaid \$3.85.

### CONKEY'S NOX-I-CIDE (Dip and Disinfectant)

Every poultry yard, ranch, home, factory, stable, store, office building—in fact, every place where sanitation is necessary to health—needs Conkey's Nox-i-cide, every day in the year.

For poultrymen, Nox-i-cide is indispensable as a red mite destroyer—paint it on the roosts and spray it into cracks. Spray premises daily when disease is present and once a week as a preventative of red mites, ticks, "blue-bugs" and disease epidemics. Cans—Pt. 50c; qt. 80c; 2 qts. \$1.30; 1 gal. \$2.00, postage extra.

### CONKEY'S POULTRY TONIC

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkey's Poultry Tonic helps birds get more out of their feed. They produce more eggs and better flesh on LESS FEED, by better digestion and assimilation. Conkey's Tonic is all medicine—free from filler, red pepper and "hot stuff." Keeps the young chicks growing, makes molting easy, strengthens the bird for bad weather and generally maintains a high health average.

Prices—Pkgs. 1½ lbs. 25c; 3½ lbs. 50c; 7 lbs. \$1.00; pails 12 lbs. \$1.60; 25 lbs. \$3.00; bags 50 lbs. \$5.50; 100 lbs. \$10.50. Parcel post, express or freight charges extra.



# We Recommend BURRELL-DUGGER REMEDIES



Every remedy sold under a positive  
guarantee of **Money Back if Not Satisfied**

Now Used and Endorsed by Leading  
Poultrymen from Coast to Coast

## For Chicken Lice!

U. S. Government recommends new  
chemical. Destroys even young  
lice as they hatch

Poultry raisers need guess no longer as to the best method of getting rid of poultry lice. After many tests, the U. S. Department of Agriculture has found Sodium Fluoride superior to any other preparation for this purpose. They say it kills both old and young lice, including unhatched lice present at the time of treatment. Talcimized Sodium Fluoride (called "T. S. F.") is made especially for poultry use. It is less irritating than straight Sodium Fluoride, penetrates the plumage more thoroughly, and comes packed in a moisture-proof, shaker-top package bearing the U. S. Government's directions for using. It is convenient—never cakes or loses strength—

Full directions are on every can of T. S. F. for use in the three ways, either by dip, dusting or pinch methods. Prices—Small Size (for 50 chickens), 40c; Large Size (twice the 40c size), 70c; Special Size (5 times 70c size), \$2.65. The above prices include packing and postage.



"I Need T. S. F."

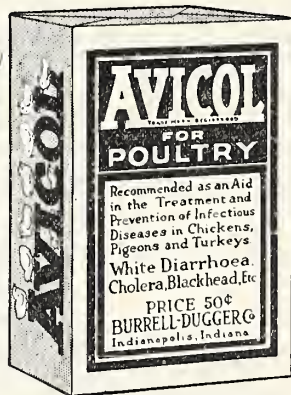
# AVICOL

For WHITE DIARRHEA  
in Chicks and Black-  
Head in Turkeys

Avicol does the work in 48 hours. Almost from the very moment you drop the first Avicol tablet in the drinking water, the sick chicks start to get well. Usually, in a short time, the very ones that seemed too weak and sick to live another day, are running around as lively as crickets, full of pep, hungry, healthy, scratching and pushing for a place at the feeding trough. After a few days of Avicol treatment, it will be hard for you to tell just which chicks had been sick and dying. They will all be so lively and active, the very picture of health.

### Use AVICOL for Prevention and Treatment

Don't sit back and say your loss of baby chicks can't be stopped. It CAN BE STOPPED—easily, quickly, and at almost no expense. All you need do is drop an Avicol tablet in the water occasionally. Avicol is a special bowel antiseptic. It stops disease and prevents its spread by destroying germ life and helping the chick withstand infection. Price, 50c; Special Large Size (almost 3 times 50c size), \$1.



## DON SUNG

Chinese for Egg-Laying

Makes Hens Lay in  
any Weather

"Hens won't lay in Fall and Winter", used to be accepted as a fact. But any one who has tried Don Sung knows that hens will lay right through the zero spells of winter, and all other cold or wet seasons. Don Sung is not an ordinary stock or poultry powder. It is a concentrated medicine—no needless bulk or filler—ready to add to your mash feed. It has a direct tonic action on the egg-laying organs and doesn't force or hurt the hen in any way. It produces more eggs by first putting the hen in good health, and then helping to maintain that health.

### COSTS NOTHING TO TRY

Every poultry raiser is invited to try Don Sung—at our risk. Separate 15 hens and give them Don Sung for one month. Then watch results. If Don Sung pays you, keep on with it. If you don't think it has paid you, tell us and back comes your money. No argument to it. Don Sung is guaranteed—try it, at our risk. Prices of Don Sung Tablets: Small Size, 50c; Large Size (3 times the 50c size), \$1; Special Size (6 times the \$1 size), \$5. We can also supply POWDERED Don Sung (for large flocks) at these prices: 3 lbs. (same quantity as \$5 package of tablets), \$5; 10 lbs., \$10; 25 lbs., \$20; 50 lbs., \$35; 100 lbs., \$65.



## Group-Over

"Formerly called Roup-Over"  
"The Over-Night Remedy" for  
COLDS IN POULTRY

Use Group-Over at the very first symptom of Colds in your flock. It clears the air passages and brings relief with magic quickness. Easily used, both for individual treatment and in the drinking water for flock prevention. Leading poultry raisers everywhere now use Group-Over, the overnight remedy. It's so easy! So sure! There's no other remedy like Group-Over—nothing "just as good." Have a bottle ready to use when you need it. Price, 50c; Large Size (3 times 50c size), \$1.

Gentlemen:

The Buckeye incubator which I purchased from you last year has proved very satisfactory and I am very well pleased with it.

Yours very truly,

WM. PETTIGREW,  
Earleigh Heights, Md.



# SPRATT'S PATENT, Ltd.

RELIABLE  
DOG FOODS AND  
MEDICINES



They Fight For Spratt's

DEPENDABLE  
BIRD FOODS AND  
TONICS



## Spratt's Meat Fibrine Dog Cakes

A Staple Food For All Breeds

For sixty years the standard dog food, used by the leading breeders and fed at the principal dog shows throughout the world. The best results are obtained by giving the biscuits dry, not soaked, thereby compelling the dog to gnaw the food and thus producing a copious flow of saliva which materially aids digestion. Price, 1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.40; 25 lbs. \$3.25; 100 lbs. \$12.50. Postage extra.

## Spratt's Ovals

The Pocket Dog Biscuit

A small Meat-Fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog. Medium size carton 40c, postpaid 49c. Also in bulk—1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.40; 100 lbs. \$12.75. Postage extra in bulk lots.



## Spratt's Patent Dog Soap (White) for Fleas,



Is of the greatest value to dog owners, as it is entirely free from poison and at the same time aids in the destruction of lice and fleas. Moreover, it keeps the skin free from Scurf, aids in the prevention of Mange and certain other skin diseases. No other soap should ever be used in preparing dogs for exhibition; it leaves the coat smooth and glossy.

Spratt's Patent Dog Soap contains no Carbolic Acid or Coal Tar but is nicely perfumed and produces a fine lather. Recommended by kennel owners throughout the world. Once tried, always used. Price per Tablet, 25c, postpaid 30c.

Directions: In using this for the destruction of Lice and Fleas, observe: Use only enough water with the soap to make a good lather, sufficient to saturate the coat and skin, and when it has remained in a minute or so, rinse out.

## Spratt's Dog Medicines

Price Includes Postage, Except Where Noted

Spratt's Cooling & Alterative Tablets—For heated blood, etc.	.60
Spratt's Chorea Tablets—For Chorea, St. Vitus' Dance, etc.	.60
Spratt's Chronic Skin Disease Tablets—For obstinate cases of Mange and Eczema.	.60
Spratt's Cough Tablets—Generally effect a quick cure.	.60
Spratt's Constipation Tablets—A gentle and effective laxative.	.60
Spratt's Diarrhoea Tablets—To relieve Diarrhoea, which usually follows change of food, etc.	.60
Spratt's Distemper Tablets—May be used as a preventative.	1.00
Spratt's Ear Canker Ointment—For both internal and external forms of this disease.	.75
Spratt's Eczema and Sarcotic Mange Medicine.	.60
Spratt's Flea Powder—Aids in removing certain parasites from dogs, cats and other animals. Per tin.	.30
Spratt's Mange Medicine.	.75
Spratt's Pneumonia Tablets—Administer as soon as possible.	.60
Spratt's Purgative Tablets—Perfectly safe and effective.	.60
Spratt's Rheumatism Tablets—For internal treatment.	.60
Spratt's Tonic and Condition Tablets—To build up after sickness and to put in bench show form, etc.	.60
Spratt's Worm Capsules—An expellent of Round, Maw, and Tape-Worms.	.60
Spratt's Worm Capsules for Puppies—May be given with perfect safety to puppies from 6 weeks old to 6 months.	.60
Spratt's Tonic and Condition Tablets for Toy Dogs and Puppies.	.60
Spratt's Distemper Tablets for Toy Dogs and Puppies.	1.00
Spratt's Distemper Tablets for Cats.	1.00
Spratt's Vermifuge Capsules for Toy Dogs and Puppies.	.60



## Spratt's Meat Fibrine Puppy Biscuits

For Puppies of All Ages

A complete and perfect food for puppies from weaning time onwards, and for small breeds as the regular food instead of Spratt's larger Dog Cakes. Price, 1 lb. 15c; 5 lbs. 75c; 10 lbs. \$1.45; 25 lbs. \$3.50; 100 lbs. \$13.00. Postage extra.

## Spratt's Fibo

Appetizing—Flesh Forming

A unique granulated food, containing a large percentage of Spratt's world-famous Meat Fibrine. It is very appetizing and highly recommended for shy and dainty feeders, as a change of diet or as a suitable food for any dog at any time. Can be given either dry or soaked. Medium size carton 40c, postpaid 49c.



## Spratt's All Terrier Meal

For Very Active Dogs

A highly nutritious, tissue building, muscle forming, bone making and conditioning food. Prices, 1 lb. 15c; 5 lbs. 65c; 10 lbs. \$1.25; 25 lbs. \$2.50; 100 lbs. \$9.50. Postage extra.

## SPRATT'S BIRD FOODS

### Cage Birds Want Spratt's "Sing-Song"

An Appetizing Food and Pick-Me-Up for All Songsters

Price, 25c, postpaid 30c.

### Spratt's Cod Liver Oil Cage Bird and Nestling Food

For feeding young birds and old birds in the moulting season. A tonic and flesh and bone maker. Unequaled as an aid to feather growth. In 4 oz. package. Price, 25c, postpaid 30c.

## Spratt's Moulting Food

It is not only a valuable tonic mixture but a flesh and bone-making food, keeping birds in good health during the moulting period. As a feather producer, it is unrivaled. In 9 oz. package. Price, 25c, postpaid 32c.

## Spratt's Egg, Fruit and Seed Canary Mixture



Totally unlike any other mixture prepared for regular canary-feeding, Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change.

The quality of the European Canary Seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song. Price, 25c, postpaid 30c.



## BARNES EMULSION

Baby Chicks to Matured  
Fowls  
Easily Fed in Water or Mash  
Can be used in any kind  
of vessel



**"An Ounce of Prevention  
Beats a Pound of Cure"  
Prevents and Controls  
Results Permanent**

**Non-Poisonous, Not an Expellant, Not a Stimulant. Aids Vitality, Nutrition and Digestion, Promotes Rapid Growth.**

Take a brood of baby chicks or a pen or flock of young stock or adult birds in which everything else is equal except that one-half of them shall receive Barnes Emulsion in their drinking water and the other half receive NO Emulsion. Then as the days pass by what you see with your own eyes in comparing these two groups for health, vitality, growth and production will convince you without question or doubt as to its effectiveness.

**Write for Free Booklet—"Common Sense Vs. Worms."**

### Barnes Emulsion Prices

1 Quart .....	\$ 1.00	5 gallon keg .....	12.50
1 gallon .....	3.00	30 gallon barrel .....	58.50
50 gallon barrel .....			92.50

## M.-S. WONDER BRED CHICKS

**100% Live Delivery Guaranteed**

Are hatched to live and mature to big fine healthy specimens. We are this season hatching thousands weekly, and are better prepared than ever to fill wants of patrons.

We advise placing orders ahead of time, as the demand for our **M. & S. WONDER BRED CHICKS** is always great. We will start deliveries the last week in February and continue until the first of June on all popular breeds.

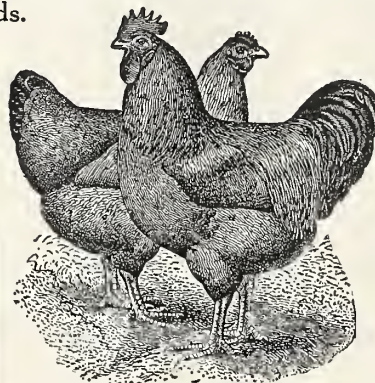
### LIST OF M.-S. WONDER BRED CHICKS

**Prices for February and March Subject to Change Without Notice**

**Special prices on 500 and over lots.**

	100	50	25	12
Single Comb White Leghorns.....	\$15.00	\$8.00	\$4.25	\$2.50
Single Comb Brown Leghorns.....	15.00	8.00	4.25	2.50
Single Comb Buff Leghorns.....	15.00	8.00	4.25	2.50
Single Comb Black Minorcas.....	18.00	9.50	5.00	3.00
Single Comb Mottled Anconas.....	18.00	9.50	5.00	3.00
Barred Plymouth Rocks.....	18.00	9.50	5.00	3.00
Rhode Island Reds.....	18.00	9.50	5.00	3.00
White Wyandotte.....	18.00	9.50	5.00	3.00
White Plymouth Rocks.....	20.00	10.50	5.50	3.25
Buff Plymouth Rocks.....	20.00	10.50	5.50	3.25
Buff Orpington.....	20.00	10.50	5.50	3.25

**April prices \$1.00 per 100 less than February and March.  
May and June prices \$1.00 per 100 less than April.  
Small quantities accordingly. Prices Subject to Change.**



**Single Comb Rhode Island Reds**

### Single Comb Rhode Island Reds

These splendid fowls have a great many admirers, and are one of the best all-around fowl.

### S. C. Leghorns

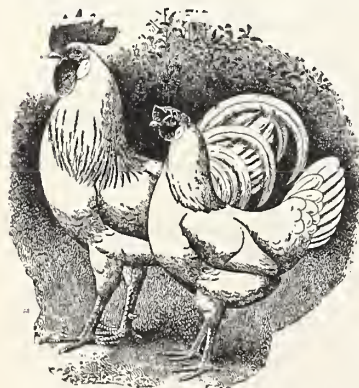
The most popular fowl of the day. They grow very fast, often laying when only four or five months old; non-setters. Three varieties—White, Brown, and Buff Leghorns.

Our stock of S. C. White Leghorns is exceptionally fine. They have been bred for heavy egg production for a long time from selected stock.

### Plymouth Rocks

The best general purpose fowl; good layers, splendid breeders, are hardy and vigorous. Three varieties—Barred, White, and Buff Rocks.

Our Barred Rocks are bred for constitutional vigor and selected from standard bred stock of uniform size and color.



**Single Comb White Leghorns**



**Barred Plymouth Rocks**





Mme. Edouard Herriot



Caroline Testout



Willowmere



Mrs. Aaron Ward



Souv. de Claudius Pernet



Mme. Butterfly



Etoile De France

# Plant a Rose Garden

CULTURAL DIRECTIONS FURNISHED

## M-S Monthly Blooming Roses

All these Roses are growing in 6-inch pots.  
Delivery in May.

Price \$1.00 each  
or  
\$9.00 for one of each on this page  
CITY DELIVERY AND EXPRESS ONLY.

Cannot be sent by Mail.



Jonkheer J. L. Mock



Pink Radiance



Duchess of Wellington





## Grows Beautiful Lawns and Flowers

You will find that Vigoro, the ideal plantfood gives all plant life a quick, vigorous start—more velvety green grass, better flowers, crisp, succulent vegetables.

Vigoro is complete, properly balanced; clean, odorless, and pleasant to handle. It can be sown by hand like grass seed.

Vigoro contains all the elements that plant life requires for healthy growth. Professional gardeners and home owners alike have come to rely upon Vigoro and recommend it enthusiastically.

Full directions in every bag. Get enough for everything you grow.



# VIGORO

*Specially prepared plant food*

A product of Swift & Company

*For lawns, flowers, gardens, shrubs, and trees*

Price F. O. B. Baltimore, Maryland: 100 pound bag, \$5.00 — 50 pound bag, \$3.00  
25 pound bag, \$1.75 — 5 pound package, 50c — 12 oz. package, 10c

Vigoro and our M.-S. Roland Park Lawn Grass Seed will make a beautiful velvety green lawn in six weeks.